

The



CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

JULY 27 1963

Grossmith Christmas shows

Here in advance are the dates of our Christmas shows at which you will be welcome. A formal invitation will be sent you later together with our Christmas brochure.

<i>IN ATTENDANCE</i>			
Aug. 12-16	Edinburgh	North British Hotel	Mr. P. S. Westrup
Aug. 19-23	Brighton	Metropole Hotel	Mr. M. C. Meikle
Aug. 26-30	Liverpool	Adelphi Hotel	Mr. P. D. Mote
Aug. 26-30	Bristol	Royal Hotel	Mr. H. G. McElroy
Aug. 26-30	Glasgow	St. Enoch's Hotel	Mr. D. K. Ludley
Aug. 26-30	Southampton	Polygon Hotel	Mr. W. J. Lewis
Aug. 26-30	Nottingham	Victoria Hotel	Mr. J. B. Catling
Aug. 26-30	Newcastle	Royal Turk's Head Hotel	Mr. M. C. Meikle
Aug. 26-29	Chatham	Sun Hotel	Mr. P. S. Westrup
Sept. 2-6	Cardiff	Queens Hotel	Mr. P. D. Mote
Sept. 2-6	Leeds	Queens Hotel	Mr. T. F. Hughes
Sept. 9-13	Birmingham	Queens Hotel	Mr. H. J. Matthews
Sept. 9-13	Manchester	Midland Hotel	Mr. A. Wolfenden
Sept. 9-13	Norwich	Castle Hotel	Mr. H. G. McElroy
Sept. 16-20	Belfast	Grand Central Hotel	Mr. D. K. Ludley
Sept. 16-19	Exeter	Rougemont Hotel	Mr. C. J. Goodere
Sept. 17-19	Llandudno	St. George's Hotel	Mr. M. C. Meikle
			Mr. J. B. Catling
			Mr. H. G. McElroy



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Telescope illustrated No. OKT115

Astronomical or Terrestrial Telescope



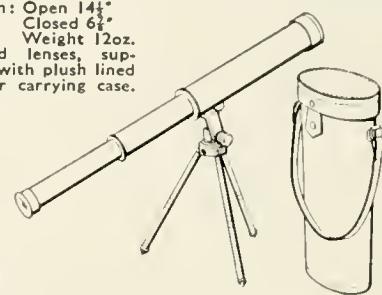
Clear aperture 50mm. Focal Length 500mm. Magnifications 8x 23x. 2 eyepieces 6mm. and 22mm. Erecting prism, 1 star diagonal prism, 1 elevating table tripod. Coated lenses. Each packed in strong carton.

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22nd JULY 1963

As from 22nd July 1963, the following price changes apply for Bristol-Myers products.

	CONSUMER PRICE UNIT	WHOLESALE PRICE DOZ.	PURCHASE TAX DOZEN
MUM ROLLETTE (Pink and Green)	4/9d	34/9d	8/3d
MUM ROLLETTE REFILL (Pink and Green)	3/9d	27/7d	6/7d
MUM BODY SPRAY Standard	3/6d	25/0d	5/11d
MUM BODY SPRAY Large	6/0d	42/8d	10/1½d
MUM STICK	2/9d	19/6d	4/8d
MUM FOR MEN	5/0d	35/2d	8/4d
MUM FOR MEN REFILL	4/1d	29/3d	6/11d
MUM CREAM Trial Size	10d	5/10d	1/5d
MUM CREAM Medium	2/0d	14/1d	3/4d
MUM CREAM Large	3/0d	20/4d	4/10d
MUM LOTION	3/3d	22/6d	5/4d
INGRAM Lather Large	3/0d	20/8d	4/11d
INGRAM Lather Economy	4/3d	30/7d	7/3d
INGRAM Brushless Large	3/0d	21/3d	5/0½d
ANGIERS JUNIOR ASPIRIN 50's	1/10d	12/11d	3/1d
ANGIERS JUNIOR ASPIRIN 500's	—	72/0d	—
ANGIERS JUNIOR JELL	2/11d	20/0d	4/9d
IPANA Standard	1/8d	11/8d	2/9d
IPANA Large	2/9d	19/2d	4/7d
BUFFERIN 12's	1/8d	12/1d	2/10½d
BUFFERIN 36's	3/11d	28/10d	6/10d
BUFFERIN 100's	—	60/0d	14/3d
BUFFERIN 500's	—	204/0d	48/5½d
ANGIERS EMULSION 7 oz.	4/1d	31/2d	7/5d
ANGIERS EMULSION 15 oz.	6/11d	52/10d	12/6½d
4-WAY COLD TABLETS 12's	3/0d	21/5d	5/1d
4-WAY COLD TABLETS 24's	5/9d	40/10d	9/8½d
SUPAVITE 21's	5/9d	50/0d	—
SUPAVITE 42's	10/6d	91/4d	—
SUPAVITE 84's	18/9d	163/0d	—
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L226/X/63

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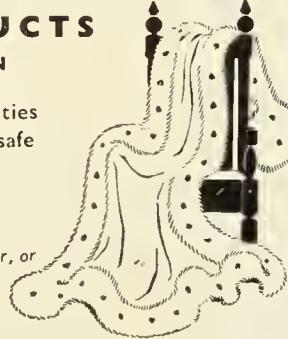
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recognition for
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the active ingredient of

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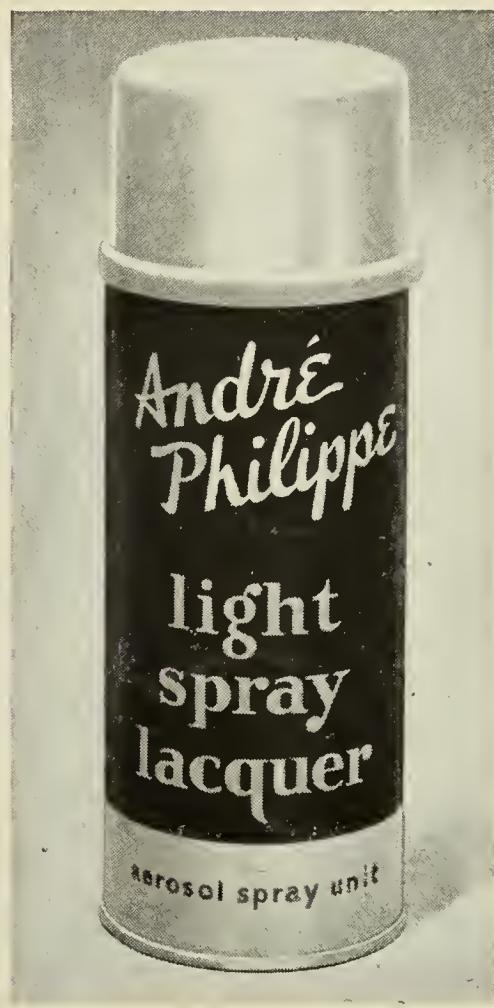
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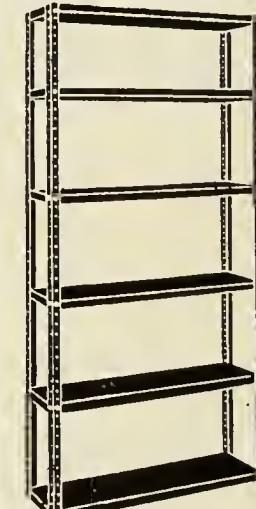
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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

THE WEEKLY NEWSPAPER FOR PHARMACY
and all sections of the drug, pharmaceutical,
fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland
and of the Pharmaceutical Society of Northern Ireland*

Volume 180

July 27, 1963

No. 4354

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The CHEMIST AND DRUGGIST

Volume 180

JULY 27, 1963

No. 4354

Drug Blamed for Death MANUFACTURER WITHHOLDS SUPPLIES

FOLLOWING a Norwich coroner's statement (see p. 85) that he believed the death of a patient to have resulted from taking the anti-depressive drug Drazine (phenoxypropazine hydrogen maleate), the manufacturers, Smith & Nephew Pharmaceuticals, Ltd., Welwyn Garden City, Herts, announced to doctors and pharmacists on July 23 that general distribution of the drug was being suspended.

A statement issued by the company declared:—

1. DRAZINE is one of a group of drugs known as monoamine oxidase inhibitors which have been used in the effective treatment of hundreds of thousands of mentally ill patients.

2. It is recognised that almost any effective drug may be accompanied by some risk and this must be balanced by the therapeutic benefits to the great majority of patients treated.

3. Drazine has never been available other than on doctor's prescription.

4. Before this drug was released for general use by the medical profession it was subjected to comprehensive laboratory and hospital evaluation.

5. Notwithstanding the general acceptance of the therapeutic value of this group of drugs, the company has decided (a) to initiate a critical reassessment by recognised medical authorities; (b) pending the results of this review to suspend general distribution of the drug.

It is understood that the company would prefer that prescriptions received for the drug be referred by chemists to the prescriber, but they do not wish to withhold supplies from specialists. The company's representatives are calling on chemists concerning stocks.

Narcotic Drugs

GOVERNMENT REPORT FOR 1962

OF 532 known drug addicts in the United Kingdom, 140 used morphine, eighty-nine pethidine, sixty-three diacetylmorphine, forty methadone and eleven used phenadoxone, 104 used diacetylmorphine and cocaine and eight used morphine and pethidine. That information is given in a Government report for 1962 to the United Nations on the working of the international treaties on narcotic drugs. The addicts comprised 262 males and 270 females; and the origin of the addiction in 312 cases was "therapeutic treatment." Fifty-seven addicts belonged to the "medical profession or allied groups." The report states that the illicit traffic in the United Kingdom is almost entirely supported by illicit imports. There is no known organised diversion of drugs from licit channels, except by larceny of small amounts of manufactured drugs. Members of ships' crews were responsible for the bulk of the illicit imports of cannabis, but a number of passengers by ships and air were also discovered attempting to smuggle cannabis into the country. The smuggling

of cannabis resin between Karachi and London airports by returning holiday makers was detected in circumstances that suggested an organised traffic. There is no evidence that narcotic drugs were smuggled through the United Kingdom. 47.25 kilos of raw opium were seized during the year under review as well as 36.3 kilos prepared opium and 105 kilos cannabis. Altogether there were 763 prosecutions for offences involving Dangerous Drugs, of which eighty-eight did not result in convictions. In the U.K. the following were authorised by the Secretary of State to possess, trade in, distribute or use narcotic drugs:—Four ambulance services, twenty-five analytical research workers, six brokers, twenty-three druggists' sundriesmen, two manufacturers of dental anaesthetics, forty-eight manufacturers of "patent and special medicines," four veterinary medicine manufacturers, two merchants, twenty private dispensaries and nursing homes, 165 wholesale dealers and manufacturers and eighteen classified as "miscellaneous."

N.H.S. Prescriptions

REINTRODUCTION OF "VARIOUS" BATCH.
AT the request of the Central N.H.S. (Chemist Contractors) Committee the Ministry of Health has agreed to reintroduce the "various" batch for National Health Service prescriptions for July onwards. Where there are six or fewer forms EC10 for any doctor, the chemist contractor may place the forms together in a "various" batch within each Executive Council area (the forms within each "various" batch being kept in doctor order). The number of forms in the "various" batch must be included in the entry for the



THREE HUNDRED YEARS' SERVICE: Twelve men and women who have each worked twenty-five years for Gillette Industries, Ltd., Great West Road, Isleworth, Middlesex, received long service awards at the company's Isleworth factory recently. The presentations were made by the company's managing director, Mr. Cecil Abberadden (centre). Two other Gillette directors, Messrs. Gordon (first right) and Arnold Claisse (third right) joined in the congratulations.

respective Executive Council. Forms EC10D should *not* be sorted into doctor order nor should the number of forms be included with the number of forms EC10 for each Executive Council; they should be collected into one batch and their total number stated in the space which is specially provided on the reverse of the invoice form. If desired, in order to assist in calculating the total number of prescriptions to be declared at the head of the invoice form, the chemist may rule an additional column on the invoice form in which to record the number of prescriptions for each Executive Council.

"Coshed" Cats

COMPANY ISSUES A STATEMENT

FOLLOWING an allegation made at Pembrokeshire assizes on July 19, and subsequently reported in the national daily Press, that cats captured in the countryside had been "coshed" and sent to one of Britain's biggest chemical firms for vivisection, Imperial Chemical Industries, Ltd., whose name was mentioned in the court, have issued the following statement:—

"THE sources of supply of laboratory animals which we buy are carefully checked and we purchase only from those people who, according to our information, raise such animals professionally."

Birmingham Analyst

REPORT FOR FIRST QUARTER OF 1963

A SPECIMEN of surgical spirit that contained 0.7 per cent. of castor oil, instead of the 2.5 per cent. required by the British Pharmaceutical Codex, is mentioned in the report of the Birmingham city analyst (Mr. A. H. Coombes) for the first quarter of 1963. Mixing of the oil and methylated spirit was subsequently found to have been undertaken on a cold day, and the heavier, viscous oil had not dissolved completely.

100 PER CENT. IMMUNISATION TARGET

Call by Minister of Health

"THE target for immunisation should be as near 100 per cent. as possible." That was stated by the Minister of Health (Mr. Enoch Powell) at the annual luncheon of the Royal Society of Health in London on July 18. There was still, he said, a wide disparity between percentages of children immunised in different parts of the country though, not surprisingly, the gap had closed somewhat for smallpox. Even there the range for children under two years of age was from 21 per cent. (Wigan) to 95 per cent. There had been some noteworthy improvements: Bradford had not only, as might have been expected, raised the smallpox vaccination rate from 1 per cent. to 65 per cent. but had also substantially raised its rates of immunisation against diphtheria, whooping cough and poliomyelitis. "An outbreak of infectious disease certainly provides a salutary shock but it is up to local health authorities and doctors generally, by health education and by carrying through comprehensive programmes of immunisation, to eliminate the causes of shock." In

in the lighter spirit. The sample was not labelled "No. 1" or "No. 2," and the attention of the pharmacist concerned was also drawn to that point. A specimen containing 9.2 per cent. ammonia, supplied by another pharmacist, was not labelled "Poison" and "Not to be taken" as required by the Pharmacy and Poisons Act, 1933. The manufacturers of a proprietary malt preparation, labelled to give an exaggerated impression of the vitamins A and D content, is understood to have agreed to revise the labels.

Heriot-Watt College

PRIZE-WINNERS NAMED

PRIZEWINNERS in the Pharmaceutical Chemist Qualifying Examination course at the Heriot-Watt College, Edinburgh, who received their awards from the Lord Provost (Mr. D. M. Weatherstone) on July 9, were:—

Final Year. DUNCAN MEMORIAL MEDAL AND PRIZE (presented by T. & H. Smith, Ltd.)—Martha R. Shaw, Dalkeith. G. F. MERSON GOLD MEDAL (pharmaceutics) and J. RUTHERFORD HILL CONFERENCE PRIZE (pharmaceutics). — Betsy M. Wilkie, Dunfermline. PFIZER PRIZE (practical pharmaceutics). — G. McL. Crawford, EVANS MEDICAL, LTD., PRIZE (pharmaceutical chemistry). — G. A. A. FOX, TIMOTHY WHITES & TAYLORS' PRIZE (general excellence). — Josephine Morton, BOOTS PURE DRUG CO., LTD., PRIZE (physiology). — Sheila H. Warren, MALPAS PRIZE (physics). — Anne Carlow.

Second Year. EVANS MEDICAL, LTD., PRIZE (general excellence), and BOOTS PURE DRUG CO., LTD., PRIZE (pharmacognosy). — Margaret J. Gilmour.

IRISH NEWS

THE REPUBLIC

Turnover Tax

MEDICINES APPEAL UNSUCCESSFUL

WHETHER there was a possibility of exemption from the turnover tax for medicines and prescriptions was asked by the leader of the Eire Labour Party

1962, as in 1961, almost without exception the bottom ten in the immunisation league tables had been north of a line drawn from the Wash to the Severn, but some areas in the North had improved their percentages and in 1962 as many of those towards the top of the tables had been from the North as from the South of the line. Mr. Powell pointed out how hints of risk arising anywhere in the world could kill the most carefully prepared immunisation campaign. Likewise any suggestion that doctors disagreed would immediately be taken by the lay public as good grounds for suspending action. Both setbacks had occurred in 1962: an attack from an eminent source on the principle of routine smallpox vaccination and a scare from North America concerning the safety of oral polio vaccine. Those events "gave all the 'anti's' a ready-made argument against everything" and some local health authorities and medical officers of health had considered it wise to defer their immunisation campaigns to a more propitious moment.

(Mr. B. Corish) in the Dail on July 11 during discussion of the Finance Bill. The Minister for Finance (Dr. Ryan) replied that he had considered the matter carefully and thought it almost impossible to make an exemption. Today, prescriptions were a small part of a chemist's business. Mr. Corish said it should be possible to provide separate returns for drugs and medicines. He unsuccessfully renewed his appeal to the Minister and the Taoiseach for the exemptions on July 17 and the Bill, which passed all stages, was then taken to the Senate.

THE NORTH

Pharmaceutical Society

PRIZES AND CERTIFICATES PRESENTED

A CALL for the "closest liaison between all members of the profession" was made by the president of the Pharmaceutical Society of Northern Ireland (Mr. D. Moore) when he presented prizes and certificates to successful candidates in the Society's examinations on July 18. The presentation was made at the Society's headquarters. Mr. Moore appealed to candidates to continue reading. They should, he said, become a storehouse of information for the doctor. "We have to work in complete harmony with the medical profession." He also asked his audience to lend their weight to the task of up-grading the profession of pharmacy.

Prize List: COUNCIL'S PRIZE FOR BEST PART-1 STUDENT.—B. L. Douglas, Belfast, J. A. M. SHAW PRIZE (pharmacognosy). — Miss Catherine P. McKenna, Armagh, ASSOCIATES' SECTION PRIZE (pharmaceutics).—Miss Elizabeth M. Calderwood, Kells; (physics).—B. L. Douglas.

*Part 2 Certificates.—N. A. Berry, J. L. Boyle, J. S. Burns, S. B. Carlisle, A. Frazer, P. E. Logan, J. McCammon, R. D. McKnight, B. F. McGrath, D. A. O'Boyle, Margaret E. Porter and Ann E. Thompson, *Theophilus Harper Scholarship*, Miss Mary E. Maguire, Belfast.*

IRISH BREVITIES

THE REPUBLIC

OVER 300 delegates from ten countries attended the summer meeting of the British Pharmacological Society held in Dublin, July 10-14. Demonstration subjects included the effects of thalidomide, cancer research and the effects of tobacco smoke on the nervous system.

OVERSEAS NEWS

UNITED STATES

Nursing-home Pharmacy Services

A BOOKLET "A Guide for Pharmaceutical Services in the Nursing Home," to ensure full and proper pharmaceutical services in America's nursing homes, is the result of joint efforts by the American Pharmaceutical Association, the American Society of Hospital Pharmacists and the American Nursing Home Association, with the assistance of the U.S. Public Health Service. It is "designed for use by both the pharmacist and the nursing home administrator so that each might better understand the scope of the other's responsibilities and thereby be of greater value to each other." Besides dealing with the regulations concerning nursing homes, the booklet covers several pharmaceutical subjects.

NEWS IN BRIEF

THE retail prices index for June was 103.9 (as in May) (January 1962=100).

AN agreement on a five-day working week, to take effect from November 4, has been concluded between the Multiple Grocers' Association and the Union of Shop, Distributive and Allied Workers.

THE second booklet in the series "Automation at Low Cost," available free from the Department of Scientific and Industrial Research, State House, High Holborn, London, W.C.1, deals with "Temperature and Humidity."

A NEW international commission on food standards has been formed jointly by the Food and Agriculture and World Health Organisations. Its first task is to prepare a compendium of food standards.

THIEVES who broke into the pharmacy of J. T. Roberts, Chemists, Ltd., Halewood Avenue, Kenton, Newcastle-upon-Tyne, recently, stole about £120, and emptied some stock, including nail varnish, over the shop before leaving. They entered by smashing a rear ground-floor window and squeezing through a set of iron bars.

THE Harrow and Wembley Productivity Association is holding at the Century hotel, Wembley, Middlesex, on October 22, a one-day conference on the use of methods study in the retail trade. Tickets (price 42s. each) are available from Mr. A. G. Sells, Kodak, Ltd. Imperial House, North Harrow, Middlesex.

THE history of the smallpox outbreak of 1961-62, which resulted in sixty-two indigenous cases in England and Wales, of which twenty-four proved fatal, has been compiled by the Ministry of Health and was published on July 26. (Ministry of Health Reports on Public Health and Medical Subjects. No. 109 Smallpox 1961-62. H.M. Stationery Office, price 5s.)

THE Minister of Health (Mr. Enoch Powell), speaking at the annual luncheon of the Royal Society of Health on July 19, said that large-scale production of measles vaccines was under way in Britain, but that he would not recommend their general use until he had been given the "all clear." The matter is being studied by a subcommittee of the Joint Committee on Vaccination and Immunisation (see also *C. & D.*, March 30, p. 324).

SPORT

Golf. — IRISH CHEMISTS' GOLFING SOCIETY. Over forty members did battle for prizes presented by Kodak, Ltd., and Irish Pharmaceuticals, Ltd., at an outing to the Castle on July 18. Results: *Strokes*, J. T. Foley (15), 66; J. A. Pattison (11), 69. *Bogey*, A. C. Hennessy (10), 1 up; F. J. Roche (14), 1 down. *First nine*, D. Flanagan. *Second nine*, J. Burke. Next outing: Elm Park, August 21.

LOCAL OFFICERS

PHARMACEUTICAL COMMITTEE

Monmouthshire and Newport. — Chairman, G. R. Clark; Vice-chairman, W. J. H. Ewins; Treasurer, E. Rees; Secretary, J. M. Lewis, 2 St. Luke's Road, Pontnewydd, Pontypool, Mon.

TOPICAL REFLECTIONS

By Xrayser

Containers

"For many varieties of tablet the skillet or tuck-end carton gives effective protection for a short period, say one week, if made of a suitable quality of paperboard; it is also economical." So runs the introduction to your paragraph reviewing the report on tablet and ointment containers prepared by the Standing Pharmaceutical Advisory Committee. The choice of container is, in the main, left to the discretion and good judgment of the pharmacist himself and, in consequence, varies considerably. It is no matter for surprise that the container has been a subject for bickering since the early days of National Health Insurance. During the period covered by that Act the conflict was at close quarters, for no provision was made for the supply of anything other than the medicine, and the container was a subject for direct (and sometimes acrimonious) negotiation between the insured and the pharmacist. Very sensibly, the National Health Service Act of 1948 recognised that the old method was not without its drawbacks, and it made arrangements to abolish the "jug and bottle" atmosphere of earlier days. That did not mean that the container had ceased to be a subject for unseemly behaviour—it merely altered the order of battle from one of scattered skirmishes to a central field in which the customer retired from the fight in favour of a Government department. Pharmacy was still involved but the out-fighting was done, against the practice in most wars, by the officers, leaving the rank and file to share in the spoils of victory or accept defeat with a good grace. It was to be expected that containers would be regarded by the Government as a costly overhead. It was not at all to be wondered at that some contractors should use the cheapest possible container, to be met, in turn, by a cut in the allowance. Such a cut inevitably induced some lowering of standards on the part of many who had been using only the best of materials. To their great credit the majority have, despite the provocation of cuts, adhered to the highest standards.

Ointments and tablets

"Effective protection" as defined by the committee must depend on circumstances. Many varieties of tablets may, as the report states, not suffer from being kept in a paperboard skillet, but that can only be under ideal conditions. It does not apply in those circumstances in which the patient is under the necessity of carrying tablets about with him—and that happens in many more cases than we may be aware of. In large cities there are countless thousands who are away from home from early morning to late in the evening, and even a well made skillet suffers from being constantly in the pocket or the handbag. I cannot escape the conclusion that a bottle is the best container available for all purposes. I am not so sure about the ointment jar. Those unfortunate enough to require ointments should, ideally, reject the container after use. That happens with the tube and also with the present-day ointment box. I have never taken kindly to the economically minded who return their empty glass jars to the pharmacy.

Yet another

It is no time since I noted with regret the passing of an old pharmacy, and last week brought the report of yet another. On p. 62 I learn that the pharmacy of the New Apothecaries Co., Ltd., of Glasgow, had closed its doors. Its beginning as an investment on the part of seven leading Glasgow physicians may not have endeared it to the existing druggists of 140 years ago, but it quickly became quite pharmaceutical and it has, as you state, had a life of considerable distinction. The connection with Joseph Lister is of great interest, for it was in Glasgow that Lister was brought face to face with the tragic happenings in the old Glasgow Royal Infirmary—a hospital built on the site of a burial ground which had provided final rest for victims of the cholera epidemic of 1849. Through its link with Lister, the pharmacy in question had an indirect relationship with Pasteur.

Pfizer Corporation Patents Actions

JUDGMENT RESERVED AFTER HEARING

AFTER a four-day hearing, Lords Justices Willmer, Danckwerts and Diplock reserved judgment in the Court of Appeal on July 19 on appeals arising out of a High Court action brought by the Pfizer Corporation, New York, challenging the Ministry of Health's use of the Patents Act, 1949, to authorise a British company to import the patented antibiotic drug, tetracycline, for use in National Health Service hospitals (see *C. & D.*, July 20, p. 56). Mr. Desmond Ackner, Q.C., for Pfizer Corporation, when asked by Lord Justice Willmer where he would draw a line between Crown use and non-Crown use in the National Health Service, said as far as hospital equipment was concerned the line was blurred. When dealing with drugs he argued that the hospital merely prescribed a drug which the patient took. That was outside the use of a patented article for the service of the Crown; the use was, he submitted quite clearly, for the benefit of the patient.

It was the emergency powers contained in section 49 of the Patents Act, 1949, that allowed the Crown to supply a patented article to the public for its use and benefit and not section 46 as urged by the Crown.

Section 46 was never intended to enable the Crown to make use of an invention by distributing it to third parties for their use and benefit because that would be a use for subjects of the Crown and not the Crown itself.

Neither Servant Nor Agent

Concerning the National Health Service Act, 1946, Mr. Ackner submitted it would be strange if, when a surgeon engaged by a private patient in a hospital used tetracycline on his patient, he was using it for the service of the Crown.

A surgeon engaged by a private patient was neither a servant nor agent of the Crown.

It was clear from the National Health Service Act that the hospitals were run by corporate bodies and that those bodies employed the staff. All that the Minister of Health retained was the power to provide remuneration and lay down conditions of employment. The staff of the National Health Service, therefore, were not civil servants.

Mr. Ackner said the fact that the Ministry of Health was discharging a statutory duty in providing drugs did not prevent a contract of sale coming into existence when the patient accepted the drugs. A patient was not compelled to accept the drugs. It could not be a contract of barter.

The Solicitor-General (Sir Peter Rawlinson, Q.C.), in reply, said the Crown imposed a duty on the Minister to provide hospitals and medical facilities and, in doing so, he was providing a service of the Crown.

The chain of responsibility spread from the Minister out to Regional Boards and then to Hospital Management Committees who acted on behalf of the Minister. The boards and the

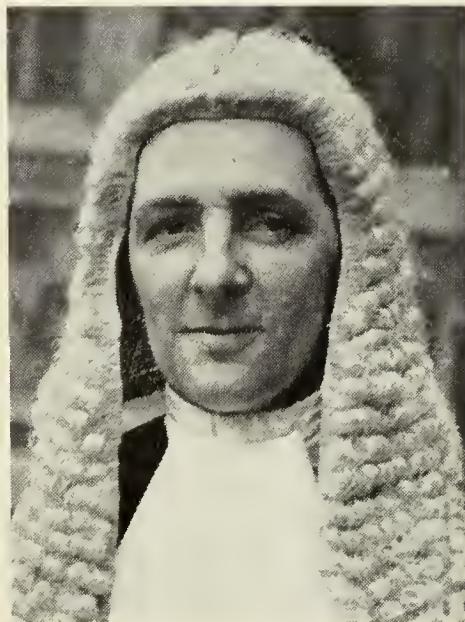
committees were subordinate servants of the Crown.

Replying to Mr. Ackner's submission that the provision of drugs to outpatients and private in-patients was "vending," the Solicitor-General said that no charge had been made for drugs and appliances for some years after the introduction of the National Health Service. In 1952 a general charge was introduced for drugs, medicines and appliances. The charge was made not because the goods were sold but because it was required by the regulations. As servants of the Minister, the Hospital Boards and the Management Committees had a duty to impose and collect the charge.

Final Submissions

Mr. Ackner, in his final submissions in support of the cross appeal, said the question to be answered was this: "Is the N.H.S. a service of the Crown and is the supply of drugs to the hospital patients a use of a patented invention for the Crown service?" The Crown had constantly avoided using the words

answered the question, "Is the use of medicines a use for that service?" The Solicitor-General had sought to say that a use by a Crown service was the same as a use for the service of the Crown. If that was correct there would



Mr. Desmond Ackner, Q.C.

be no need for the wider powers given to the Crown for use in special circumstances by section 49.

Answering Lord Justice Diplock, Mr. Ackner agreed that a rational explanation of the supply of the drugs to patients was that it was for the service of the Crown since the Crown had a duty to provide the drugs. In his submission, however, the use of a patented object had to be for the benefit of the Crown to help it perform its function.

Separate Obligations

On the question of vending, Mr. Ackner submitted that the hospital pharmacist and the patient each had an obligation, the one to provide the drug and the other to meet the charge and there was no obligation upon the pharmacist to meet his obligation until the patient had met his.

In conclusion, Mr. Ackner submitted that the Ministry needed new powers to do what it wanted. At present the obtaining of drugs for supply to patients for their use and benefit was beyond the powers laid down by the Patents Act.



The Solicitor-General (Sir Peter Rawlinson, Q.C.).

of section 46 "use for" and had endeavoured to construe them as meaning "use by." The question was not whether the supplying of drugs was part of the service of the Crown but whether the drugs were used for Crown service.

It was conceded by the Crown that the National Health Service was not a Crown service in its entirety since the general practitioner service was outside the powers relating to hospitals. In his submission those engaged in working in hospitals were not Crown servants and Parliament never intended them being regarded as such.

Mr. Ackner argued that the bulk of the Solicitor-General's submissions had been on the basis of establishing that part two of the National Health Service Act, 1946, was a service of the Crown. The Solicitor-General had not

N.H.S. STATISTICS

In EAST SUFFOLK during 1962, 548,409 prescriptions were dispensed at an average cost of 117d. per prescription. Payments due to pharmacists totalled £267,596 less £56,290 paid by patients.

In ENGLAND during January 16,847,743 prescriptions (11,466,713 forms) were dispensed at a total cost of £7,424,105. Average cost per prescription 105.76d. During February 17,582,111 prescriptions (12,113,184 forms) were dispensed at a cost of £7,542,789, and an average cost of 102.96d. per prescription.

LEGAL REPORTS

Assistant's Embezzlement

WHEN she was brought up on remand at Old Street court on July 12, Olive Durell, 186 Kyverdale Road, London, N.16, was fined a total of £20—£10 on each of two charges. She had pleaded guilty at the previous hearing to embezzling 11s. and £1 received by her on behalf of Briggs (Cash) Chemists, Ltd., 197 Hoxton Street, N.1. At her request six similar offences were taken into consideration. The court was told that Mrs. Durell, married and of previous good character, had kept the money instead of putting it in the shop till. The offences came to light through "test purchases." The magistrate warned Mrs. Durell, who had spent a week on remand in custody, that if she ever offended again she would never get the chance she was now getting. "Go away and make up your mind that this will never happen again," he added.

Chemist Fined £120

ROUTINE test purchases resulted in Mr. Maurice Alterman, M.P.S., 147 Wick Hall, Furze Hill, Hove, 2, being fined a total of £120 at West London magistrates' court on July 6. Alterman was fined £30 on each of four charges of embezzling sums of 5s. 5s., 3s. 1d. and 2s. received on account of his employers, Alfred Green (Pharmacies), Ltd., New King's Road, Fulham. A police officer said that Alterman was a qualified person employed as manager of the shop. On June 28 a routine test purchase was made and when goods, worth 9s. 6d., were paid for the manager rang up 4s. 6d. on the till and pocketed 5s. Four more test purchases were made on July 4. In three instances he pocketed part of the money, but on the fourth occasion he "rang up the correct amount." Told of the allegations, Alterman said they were true. He had, he said, been experiencing difficulties meeting his travelling and living expenses. "It is a shocking thing that someone in your position should be systematically dishonest," said the magistrate, imposing the fines. Alterman was granted two months in which to pay, with the alternative of two months in prison.

Illegal Sale

A FINE of £100 was imposed on Mr. John Turnbull, M.P.S., 122 Drip Road, Stirling, with the alternative of three months' imprisonment, at Stirling sheriff court on July 16 for unlawfully selling by retail and without a prescription tablets which contained dexamphetamine sulphate, a poison, to three persons, and also unlawfully selling seventy-two tablets to a woman on another occasion. Turnbull was also found guilty of having, on various dates between April 1960 and December 1962, unlawfully sold the tablets in a container which did not bear the name of the poison with the word "Poison" on it, and without the name of the seller of the poison and the address of the premises from which it was sold. Sentence had been deferred from the previous day. During evidence that day the accused denied having sold the tablets containing poison.

but admitted selling "energy tablets" which did not require a prescription. He said he sold weekly about 1,500 energy tablets containing caffeine. The other tablets were only sold by him on prescription and, if his assistants inadvertently sold them, it was without his knowledge. It is understood that an appeal is pending.

COMPANY NEWS

Previous year's figures in parentheses

AMBER CHEMICAL INDUSTRIES, LTD.—Marvan Investment Trust has announced that acceptances for the offer for Amber Chemical Industries, Ltd. (C. & D., June 13, p. 32), totalled 115,600 shares, and that according to the terms in the formal offer it will now lapse.

AMERICAN CYANAMID C.—Earnings for the first six months of 1963 were \$34,086,000 (\$31,624,000 in first half of 1962). Dr. W. G. Malcolm (chairman and chief executive officer) reported that sales and earnings for the second quarter of 1963 included operating results for the six months ending June 30 of John H. Breck, Inc., which was acquired by Cyanamid in

May. The increase in first half sales, Dr. Malcolm said, was due principally to the acquisition of Breck and the Dumas Milner Corporation. The latter, purchased in February, operates as Cyanamid's household products department.

STEVENSON & HOWELL, LTD.—Mr. S. G. Lane (director and manager of the export department), is retiring at the end of August. Mr. A. Rogers, who has acted as deputy for many years to Mr. Lane, will take over the position of manager of the export department from September 1. The fifty years that Mr. Lane has been with the company have been spent entirely with the export department.

ELI LILLY, S.A.—Negotiations were recently completed for Eli Lilly, S.A., Geneva, Switzerland, to become 50 per cent. owner of a Spanish pharmaceutical manufacturing company, Indiana S.A., Madrid. The transfer of part ownership took place on July 24. Indiana S.A., has manufactured Lilly products under licence and has acted as the exclusive Lilly distributor in Spain for the past ten years. The name of the company is being changed to Lilly Indiana de España, S.A.

IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

THE Secretary of State for Scotland was asked by SIR HUGH LINSTEAD about the circumstances in which an order for a drug for a patient at Gateside Hospital, Renfrewshire, sent by a registrar to a manufacturing company was countermanded by the hospital authorities and if he would make a statement. MR. MICHAEL NOBLE (Secretary of State for Scotland) in a written reply on July 18, said:—"The normal procedure is to order any drug required through the hospital pharmacist and a doctor of junior standing has to obtain the approval of the consultant in charge of the patient where the drug is new or relatively untried. In this case the drug was ordered direct and not through the pharmacist and, although the consultant concerned had agreed to inquiries being made, he had not approved the purchase. The patient was in fact discharged home three days after the order had been placed. When the facts came to notice, the suppliers were informed that the order was unauthorised and that the Board of Management could not be responsible for payment. Meanwhile the drug was delivered at the hospital; it has now been returned. Had the drug been urgently needed, or the consultant approved its supply, the order would not have been cancelled."

Drug Trafficking, Glasgow

SIR MYER GALPERN asked the Secretary of State for Scotland on July 17 if he was aware of the grave concern recently expressed by the Glasgow police at the growth of drug trafficking in the Glasgow area and the need for greater vigilance on the part of the authorities. LADY TWEEDSMUIR (Under-Secretary of State) said that the Secretary of State for Scotland had asked the chief constable of Glasgow for a report. Sir MYER said

that, although he welcomed the fact that the Secretary of State had asked for the report in view of the conviction of a Stirling chemist for selling drugs without a prescription, the allegations of trafficking in "goof" pills at the Dumfries Borstal Institution, and the common defence in serious assault cases of the accused being under the influence of drugs, called urgently for a special inquiry, in addition to the report into drug trafficking in Scotland. LADY TWEEDSMUIR replied: "The case mentioned in the question involved Indian hemp. As regards other drugs, all medical committees in Scotland were recently advised to be very careful about prescriptions."

Voluntary Price Regulation Agreement

MR. K. ROBINSON asked the Minister of Health when the present Voluntary Price Regulation Agreement relating to the supply of drugs to the National Health Service was due to expire and how soon, prior to expiry, he expected to open discussions with representatives of the pharmaceutical industry on the form of a new agreement or the continuation of existing arrangements. MR. ENOCH POWELL's (Minister of Health) written reply on July 19 was: "June 30, 1964; in good time."

Lipsticks

MRS. J. S. BUTLER asked the Parliamentary Secretary, Science, what report had been made to the Department of Scientific and Industrial Research by the British Industrial Biological Research Association in regard to its research into possible hazards from colouring matter in lipsticks. MR. DENZIL FREETH (Parliamentary Secretary, Science) in a written reply on July 23 stated "None."

DISTILLERS CO., LTD.—The financial figures for the year ended March 31 make provision for a loss on sale of its bio-chemical interests, less estimated tax relief, of £547,867. Group pre-tax profits increased by £1.24 million to £34.2 millions. Net balance attributable to the parent, after tax is £17.27 millions (£16.49 millions). Dividend for year is 14½ per cent. (13½ per cent.).

ABBOTT LABORATORIES, LTD.—The board of management has been reconstituted to comprise Messrs. D. S. Bannatyne, financial director; F. W. P. Corbould, marketing director; G. Hearn, sales director, ethical division; W. Krueger, production director; M. N. Scorgie, managing director; R. F. Severn, promotion director, proprietaries division; and Dr. R. F. Crampton, medical and product development director.

CYANAMID OF GREAT BRITAIN, LTD.—Mr. H. C. Plevin has been appointed managing director of the company in succession to Mr. O. N. Williams, recently promoted Cyanamid International Corporation's first European regional director. Mr. T. J. Woodthorpe (a director of the company) has been appointed director of manufacturing, European region, Cyanamid International Corporation, based on Zurich headquarters. Mr. C. T. Cresswell, F.P.S. (general production manager, Gosport), has been promoted works manager in succession to Mr. Woodthorpe.

ASHE CHEMICAL, LTD. and EDWARDS HARLENE, LTD.—Ashe Chemical, Ltd., through its wholly owned subsidiary Ashe Laboratories, Ltd., have acquired the whole of the issued share capital of Edwards Harlene, Ltd., for an undisclosed cash consideration. The acquired company was incorporated on January 4, as Edwards Harlene (Sales), Ltd., to take over the business of its parent company, Edwards Harlene, Ltd. The name of the company has now been changed from Edwards Harlene (Sales), Ltd., to Edwards Harlene, Ltd., and the name of the original Edwards Harlene, Ltd., has been changed to Pertetwal, Ltd. Ashe Chemical Group has no interest in Pertetwal, Ltd. The business acquired is being carried on in the same style as formerly.

BOOTS PURE DRUG CO., LTD.—At the annual meeting on July 18, Mr. Willoughby R. Norman (chairman) told shareholders that the sales showed an increase of 6½ per cent. during the first 3½ months of the current financial year but pointed out that the period included a fortnight of special offers in celebration of the company's seventy-fifth anniversary—which added "a very considerable" amount to the sales volume. The weather also had to be taken into consideration "because sales in the photographic department and in seaside requisites lost through bad weather are not recovered and the weather has been appalling." He therefore thought the 6½ per cent. sales increase was satisfactory. "The drive for efficiency in the company goes on," Mr. Norman said. Since 1958, notwithstanding an increase of some £30 mil-

lions in sales, the number of overall staff in the company had only increased by 900, and in the last year had actually fallen. "If the economy continues to pick up, and barring any unforeseen circumstances, I hope we shall be able to show you good results this time next year," Mr. Norman forecast.

LAPORTE INDUSTRIES, LTD.—At the annual meeting held on July 18, Mr. P. D. O'Brien (chairman) said that although discussions were still proceeding with the financial advisers, in order to complete the current expansion programme the company would be raising approximately £3½ millions shortly by means of a further issue of debenture stock. Reporting on current trading, Mr. O'Brien said results available showed a marked improvement for the months of April and May, compared with a similar period last year. Whilst a period of two months was not indicative of a trend in any direction, he regarded trading conditions as "much more buoyant." Mr. O'Brien confirmed his forecast that the group hoped, during the next five years, to double their income.

BUSINESS CHANGES

MASON & CO., LTD., are removing to larger premises at Shaftesbury House, 38 Lord Nelson Street, South Shields (from 4 East Street), on July 29.

ILFORD, LTD., Ilford, Essex, have formed a techno-commercial department to form a link between sales and research interests in the company. The new department, under the management of Mr. E. R. Townley, absorbs the functions of the old technical service and marketing departments. Other appointments, effective immediately, are: Mr. G. W. Ashton, home sales manager; Mr. F. A. Bearcroft, overseas sales manager; Mr. R. S. Liddle, European sales manager (excluding E.E.C. and Switzerland).

Appointments

KELDON, LTD., Wadsworth Road, Perivale, Middlesex, have appointed Mr. W. M. Tokell their area representative for East Anglia.

REMINGTON ELECTRIC SHAVER, LTD., have appointed Mr. D. Bowman, 21 Osgangs Terrace, Edinburgh, 13, sales representative for the East of Scotland area.

PERSONALITIES

MR. J. A. G. FRASER, M.P.S., retired on June 30 after thirty-two years' service with Pharmaceutical Specialities (May & Baker), Ltd., Dagenham. Though most of his career was spent in the Leeds-Harrogate area, where he has always lived, Mr. Fraser covered the company's interest widely in the North of England during the 1939-45 war.

DR. J. W. MITCHELL, F.R.S., who is professor of physics, University of Virginia, United States, is returning to the United Kingdom on being appointed director of the Department of Scientific and Industrial Research's National Chemical Laboratory. He succeeds Dr. John Stuart Anderson, F.R.S., who is taking up the chair of

inorganic chemistry at Oxford University.

MR. E. WEBSTER, B.Sc., who has been appointed company bacteriologist and assistant to the chief chemist at Antigen, Ltd., Roscrea, co. Tipperary, is a native of Dundalk. He graduated in 1961 with a moderatorship of the first class in organic chemistry, with bacteriology as a subsidiary subject, and has since been engaged in research on the chemistry of natural products. He will be in charge of sterility control in his new position.

MR. G. W. ASHTON, F.R.P.S., appointed home sales manager of Ilford, Ltd. (see previous column), began training as a pharmacist on leaving grammar school in Wallasey, Cheshire, serving three years of a four-year apprenticeship at Birkenhead with Timothy Whites & Taylors, Ltd. In 1942 he volunteered for service as a photographer in the Royal Air Force and served in various parts of the world until his demobilisation in 1947. After joining the technical writing staff of Ilford, Ltd., he became marketing manager, a post he has held for over four years.

MR. M. J. CAHILL, 27 Springfield Road, Templeogue, Dublin, who has been appointed

to assist the registrar of the Pharmaceutical Society of Ireland (see *C. & D.*, July 20, p. 68) in dealing with administrative work involved in the operation of the new Pharmacy Act and poison regulations, qualified as a pharmacist in 1954.

A native of Ballinasloe, co. Galway, Mr. Cahill was educated in Monaghan and there later completed a four-year apprenticeship with Mr. P. Ronaghan. At Dublin in 1948 he took his final examination while with Hayes Conyngham & Robinson, Ltd., attending night classes in Mount Street. After qualifying, Mr. Cahill served five years as medical representative with Boots Pure Drug Co., Ltd., and then opened his own pharmacy at Parnell Street, Dublin, in 1958 giving it up after four years to become production chemist to W. Gawe & Co., with whom he has remained until recently. Mr. Cahill was president of the Irish Pharmaceutical Students' Association from 1949 to 1952 and, as a founder member of the Irish Pharmaceutical and Medical Representatives' Association, his gift for organisation soon became apparent. He has also been chairman of the Chemists' Debating Society.



DR. C. L. GREENING (production officer at the Wellcome Research Laboratories, Beckenham, Kent) was rescued by the Argentine Navy from the River Plate on July 11. With Mr. W. F. Thompson (a director of the Wellcome Foundation's Brazilian company) he was on board a riverboat when it hit a submerged wreck and sank between Montevideo and Buenos Aires, with a loss of at least fifty-three lives. Both recovered sufficiently from their five-hour immersion to travel to Brazil, where Dr. Greening is continuing his professional visit to Latin America.

DR. JACOB W. STUTZMAN, who has been president of Riker Laboratories, Inc., U.S.A., since 1962, was previously (1961-62), general manager and (1953-61) vice-president. He joined the company in 1952 as director of research. He was associate professor of pharmacology, Boston University School of Medicine, 1947-50, and assistant professor of physiology, University of Wisconsin Medical School, 1946-47.



Medicine, 1947-50, and assistant professor of physiology, University of Wisconsin Medical School, 1946-47.

DEATHS

ASHURST.—On July 11, Mr. Frank Ashurst, M.P.S., 60 Pogmoor Road, Barnsley, Yorks. Mr. Ashurst qualified in 1947.

BANNATYNE.—On July 12, Mr. Dugald Bannatyne, M.P.S., 1 Albany Street, Oban, Argyll. Mr. Bannatyne qualified in 1929.

ETCHELLS.—Recently, Mr. Thomas Edward Etchells, M.P.S., 68 Medomsley Road, Consett, co. Durham. Mr. Etchells qualified in 1927.

HARRISON.—Recently, Mr. Alexander H. Harrison, Ballsbridge, Dublin. Mr. Harrison, who was aged fifty-nine, was managing director of Colgate Palmolive (Ireland), Ltd., and James Crean & Son (1936), Ltd., Dublin.

McHENRY.—On July 17, Mr. Ernest Robert McHenry (joint managing director, W. H. Hobbs & Co., Ltd., 22 and 23 Tower Hill, London, E.C.3). Mr. McHenry had completed over forty-six years with the company. He became a director in 1941, and was appointed joint managing director in 1956.

O'CONNELL.—On June 28 Mr. John D. O'Connell, M.P.S.I., 43 Bank Place, Mallow, co. Cork. Mr. O'Connell, who qualified in 1910, was one of Eire's oldest practising pharmacists, specialising mainly in veterinary products. Aged seventy-five, he served his apprenticeship in the North Strand, Dublin, and soon after qualifying opened his own pharmacy in Mallow which still flourishes. A well-known horse breeder he rode with the Duhalow hunt and acted as clerk of scales at numerous point-to-point races in the south. As owner of the Scarteen stud he sent many valuable yearlings to the

Ballsbridge bloodstock sales. His only son, Dr. St. John (Jack) O'Connell, is an orthopaedic surgeon in Cork. Mr. O'Connell, whose wife died in 1952, was cousin of Mr. Edward O'Sullivan, M.P.S.I., Westmoreland Street, Dublin.

INQUESTS

Death Ascribed to Drazine.—When recording a verdict of misadventure at the inquest following the death of Mrs. Joyce Trudgill, Essex Street, Norwich, the coroner added that he was satisfied that death was caused by the drug Drazine. Dr. W. J. D. Eberlie, who had been attending Mrs. Trudgill, told the coroner Mrs. Trudgill had been suffering from frequent mild attacks of depression for several years. In May Drazine tablets were prescribed. Later she said her

depression was better, but she felt unwell and he diagnosed a severe liver infection. She was admitted to the Norfolk and Norwich Hospital. She died two days later on July 15. A post-mortem examination revealed that the liver "had become non-functioning" and the pathologist suggested the drug was the probable cause. A consulting psychiatrist said he had been using Drazine in cases of depressive illness for two-and-a-half years. He had not found any cases where it caused physical deterioration. Dr. Alexander Ross (research manager, Smith & Nephew Pharmaceuticals, Ltd., Welwyn Garden City) described the tests undertaken prior to releasing the drug and said it had been on the market for a period of two years.

TRADE

Change of Distribution.—From August 1 Lautree (Cosmetics), Ltd., 104B Old Christchurch Road, Bournemouth, Hants, are taking over from Meggeson & Co., Ltd., the distribution of Corex shampoo.

Discontinued.—Beecham Research Laboratories, Ltd., Great West Road, Brentford, Middlesex, announce that stocks of Wright-Fleming rheumatic vaccine are now exhausted, and the product has been discontinued.

Distributors in Scotland.—Keldon, Ltd., Wadsworth Road, Perivale, Middlesex, announce that Donald Macaulay, Ltd., 22 King Street, Trongate, Glasgow, are now responsible for distribution of the company's products in Scotland.

Free Shopping Bags.—From August 15 Haetam, Ltd., 63 Corporation Street, Manchester, 4, are resuming the supply of one shopping bag free for passing on to customers with every packet of their Fabulo brand hair rollers.

Partial Sell-out.—Southalls (Sales), Ltd., Rockville Road, Saltley, Birmingham, 8, announce that their current "fourpence off" bonus offer for Golden Babe disposable nappies has exhausted the packets of ten and twenty. The offer of 18s. per doz. off all rates for packets of forty-eight continues while stocks last.

Awarded "Kite" Mark.—The Infra-phil and Ultraphil health lamps of Philips Electrical, Ltd., Century House, Shaftesbury Avenue, London, W.C.2, have been awarded the British Standards Institution's "kite" mark after having been tested for compliance with B.S.3232 (medical treatment lamps). They are understood to be the only health lamps marketed in Great Britain to have gained such approval.

Switch to Metric Packs.—Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, Essex, announce that they are in the process of completing the switch-over of most of their medical packs of liquid preparations to the metric system. The imperial packings should all be sold first, they advise stockists, particularly as the changeover will take several months. The products affected are Anthisan elixir, Largactil syrup, Phenergan elixir, Phensedyl, Stemetil, Stemetil forte, Streptotriad

NOTES

granules, Sulphatriad suspension, Thiazole suspension, Valledrine, Vallergan and Vallergan forte, Penitriad granules and Nivaquine syrup.

Production Capacity at Stretch.—Lambert Chemical Co., Ltd., Eastleigh, Hants, state that their production facilities are now at a considerable pressure as a result of the phenomenal rise in the demand for their speciality Poly-color. Rather than place the whole Poly range on restricted sale, they are delaying delivery of Polyblonde, one of the four new items launched on May 20 (see *C. & D.*, May 18, p. 545). By doing so they hope to be able to meet the full requirements of all the other Poly products. In order to limit the delay to three or four weeks they are importing new plant from the Continent, and doing everything possible to meet the rising demand.

Labelling Changes.—E. R. Squibb & Sons, Ltd., P.O. Box 6, Edwards Lane, Speke, Liverpool, 24, announce the following changes in the labelling and presentation of certain of their products:—Adcortyl-A parenteral is now labelled Adcortyl-A intra-articular/intradermal (the labelling is more descriptive, say Messrs. Squibb, of the indications and method of administration of the product). Adcortyl-A intra-articular/intradermal is not intended for intramuscular or intravenous use. The presentations of Tolseram (mephenesin carbamate, 0.5 gm.) tablets and Pronestyl (procainamide hydrochloride, 0.25 gm.) tablets, have been changed, the single-sided scoring being replaced by the word "Squibb" embossed on one side.

Output Reaches Twenty Millions.—Recently Riker Laboratories, Ltd., Northridge, California, U.S.A., celebrated the production of twenty million Medihaulers. About one-quarter of the total were manufactured and sold by Riker Laboratories, Ltd., Loughborough, Leics, for use in Britain and many overseas countries. The Medihauler was devised by the chairman of the American company's board (Dr. George Maison), who has described how it came to be introduced. For one of his children he bought a glass nebuliser in 1950. She dropped and broke three or four, then learned to hold on better, but the small capillary tube became blocked with precipitate. Then the device ceased to work because the

rubber bulb dried, cracked and leaked air. So Dr. Maisor decided there was a need for a unit that was unbreakable, caused no precipitate, had no small glass tube to break off or rubber bulb to leak, and no variation of dose. Only in 1954 did he see for the first time a unit-dose aerosol valve. By 1956, all the problems of incorporating it were solved, and the Medihaler in its first crude form was on sale. The Medihaler was thus the first pressurised aerosol approved for inhalation treatment of asthma and emphysema. The British company was formed in 1951 to become responsible for promoting Riker products in certain Commonwealth countries. Subsequent development has been such that it now supplies Riker products all over the world except to the United States and Canada. Speaking in California to celebrate the twenty-million Medihaler achievement, Mr. J. W. Stutzman, M.D. (president of Riker Laboratories) said that the instrument was not only the first of the aerosol nebulisers. It remained the most dependable in use.

Holiday Closings

MOST manufacturers are closing on Bank Holiday Monday. The following exceptional arrangements should be noted:—

THE BRITISH DRUG HOUSES, LTD., Graham Street, London, N.1. Emergency staff available to deal with urgent orders, Saturday, August 3.

GLAXO LABORATORIES, LTD., Bageddie warehouse open as usual, Greenford and Dukinfield warehouses closed from Friday afternoon; skeleton staffs to deal with emergency orders, Saturday, August 3, 9 a.m. until mid-day.

NORTHERN PHARMACEUTICALS, LTD., Galen House, Bradford, 1, open on Bank Holiday Monday as usual.

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., Dagenham. Order department closed from 12 noon, Friday, August 2.

WARREN, STANLEY & CO., LTD., wholesale chemists, 129 High Street, Edgware, Middlesex. Closed for annual holidays, July 29 to August 9.

THE following have notified that urgent supplies may be obtained from John Bell & Croyden, 50 Wigmore Street, London, W.1:—

DISTA PRODUCTS, LTD., The Broadway, Wimbledon, S.W.19.

FBA PHARMACEUTICALS, LTD., Burrell Road, Haywards Heath, Sussex.

GEIGY PHARMACEUTICAL CO., LTD., offices and warehouse at Wythenshawe, Manchester, and Isleworth, London.

HORLICKS, LTD., Slough, Bucks. Friday.

PAINES & BYRNE, LTD., Perivale, Greenford, Middlesex.

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., Dagenham, Essex.

PHARMAX, LTD., Western House, Gravel Hill, Bexleyheath, Kent.

Bonus Offers

PRINTAR INDUSTRIES, LTD., Brettenham House, Lancaster Place, London, W.C.2. Prinsan pine disinfectant. Thirteen invoiced as twelve (introductory bonus).

WHISPER COSMETICS, LTD., 175 Bow Road, London, E.3. Whispering Mist setting spray with lanolin. Fifteen invoiced as twelve.

INFORMATION WANTED

The Editor would appreciate information about:

Woolridge gout tincture (present address)

Peerless vacuum flask

NEW PRODUCTS AND PACKS

Packs Redesigned.—Orstrax, Ltd., 52 Basinghall Street, Leeds, announce that their Orstrax tonic tablets are now being sent out in newly designed packs containing forty-two, eighty-four and 156 tablets respectively.



Now on General Distribution.—Paines & Byrne, Ltd., Pabyrn Laboratories, Perivale, Greenford, Middlesex, announce that, following the publication of the report to the Medical Research Council on a conference on phenylketonuria (*British Medical Journal*, June 29), the company's products Ketovite tablets and Ketovite (supplement) syrup have been made available for general distribution. Each is intended for use, in conjunction with the low-phenylalanine foods Cymogram and Minafen, in providing an adequate intake of essential vitamins and amino-acids for phenylketonuric children. The tablets are supplied in packs of 100, 500 and 1,000, and the syrup in bottles of 100 and 500-mils. An information card is available from the makers.

Setting Spray with Lanolin.—Whisper Cosmetics, Ltd., 175 Bow Road, London, E.3 (Northern Ireland agents, J. Dougherty & Sons, Ltd., Ballagh, co. Londonderry), are launching a new speciality Whispering Mist clear setting spray with lanolin.

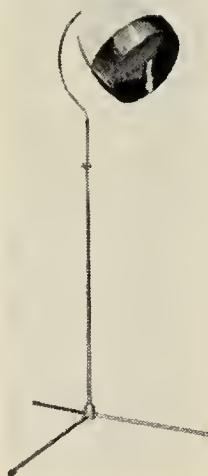
A New Cosmetic Shade.—Lancôme (England), Ltd., 14 Grosvenor Street, London, W.1, have produced a new cosmetic shade, "solano," in their *Fond de Teint Solaire Mat*. The colour is intermediate between "pampero" and "cyclone" in the company's range, and has been specially created "to give a natural golden glow."

Additional Toiletries.—Shulton (Great Britain), Ltd., 100 Brompton Road, London, S.W.3, have added an after-shave lotion travel pack and a spray deodorant to their Old Spice range of men's toiletries. In their Desert Flower women's range a plastic bottle pack of the hand and body lotion has been added.

A New Large Jar.—Organon Laboratories, Ltd., Crown House, London Road, Morden, Surrey, are introducing a new large-sized jar of Endocil beauty cream in the black and gold design of the medium-sized jar.

A New Perfume Series.—With the declared intention of "coming right back into the perfumery field," J. & E. Atkinson, Ltd., Bessemer Road, Welwyn Garden City, Herts, have launched a new perfume series, *Chantage*. The fragrance is described as "a mature and sophisticated perfume with exotic overtones; and as having natural mossy, woody background odour with a warm sensual note giving tone and excitement." There are seven products in the range: *Chantage* perfume in three sizes ($\frac{1}{2}$ -oz. and $\frac{1}{4}$ -oz. in crystal, waisted bottle with black high-hat top, the first boxed on a plinth; the second in oblong nest box; and petite size for purse, in pochette in miniature gift bag); *parfum de toilette* (3-oz. size in crystal, waisted bottle with black high-hat top, cartoned); talcum powder in aquamarine shaker container in rigid plastic that looks enamelled; bubble-bath oil (3-oz. size in crystal, waisted bottle with black cap, cartoned); bath sparkles (in tall, white Grecian-style stoppered jar of unbreakable plastic, in presentation box); toilet soap, milky white, sold singly or in carton of three; and bath cubes, foil-wrapped in gift set. There are also four gift sets in coffrets:—*Parfum de toilette* and talcum powder; talcum powder, toilet soap, and two bath cubes; talcum powder and four bath cubes; and talcum powder and two bath cubes. *Chantage* will be in national distribution from the first week in September.

Home Hair-dryer.—Modelled on the apparatus used by professional hairdressers in their salons, the Rolac helmet of Rolac (Great Britain), 113 Princess Street, Manchester, 1, is made in ivory-coloured plastic with a lower $2\frac{1}{2}$ -in. rim of clear Perspex. A pull-switch that hangs from the top of the helmet is easily operated by the left hand, allowing the user to flick from warm heat to cool air and back again to warm as often as she wishes. The price is inclusive of an easily fixed wall bracket. Alter-

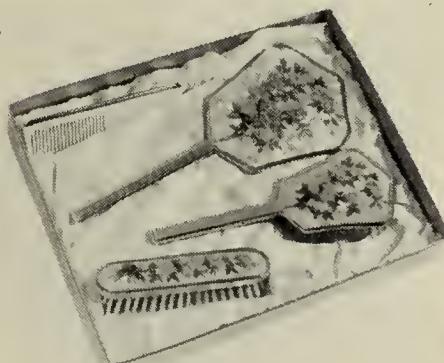


natively, a floor stand is available at an extra cost. Finished in heavy-duty chromium, the stand is quickly adjustable to any chair height. When it is not in use the legs may be slotted off and the dryer and stand packed away in a cupboard. An advantage claimed for the Rolac hairdressing helmet is its safety. Inside the helmet itself is a protective guard designed to expand and retract with the heat. Outer and inner sides of the helmet can, after use, be wiped clean with a damp cloth. The helmet is fitted with a three-core flex, and operates on 200-50 volts, a.c.

New Look.—Lastonet Products, Ltd., Carn Brea, Redruth, Cornwall, have given a new look to their Quick Snap baby pants which, since July 1 have appeared in an attractive carton calculated to appeal to the young mother and mother-to-be. The new pack is being supported by a new showcard duplicating the design of the pack.

Soap Fruit "Punnets."—Sales of their orange soaps in the United States, say H. Bronnley & Co., Ltd., Bronnley Works, Brackley, Northants, have recently soared to such an extent that the manufacturers have thought it worth while to put on the market in this country a special "punnel" of their orange and lemon soaps as presents. The orange soaps are claimed to "capture the lingering perfume of lush orange groves in North Africa and Morocco." The lemon soaps (right) are "fresh, tangy and exhilarating, and contain oil from Sicilian lemons."

Contemporary or Traditional.—A. S. Brown & Co. (Mfg.), Ltd., 79 Coborn Road, London, E.3, are now offering for the customer of average means a brush set in contemporary shape at a price much below that of the set they have been marketing for the past three



years. Another newly styled set offered at a reasonable price by the company is for those with "modern but less advanced taste." It combines traditional features with "plain clean lines." New pieces have been added to the traditional range, and new metal finishes join the hand-painted and delicate brocade decorations.

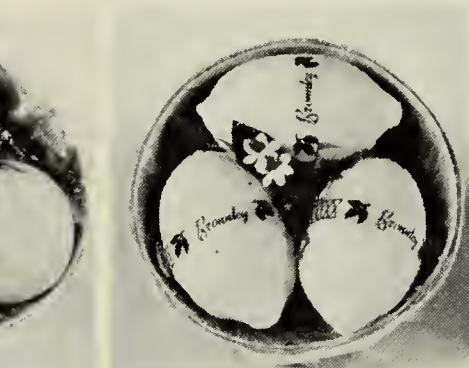
Ice Bowl and Bucket.—THERMOS, LTD., Ongar Road, Brentwood, Essex, have put on the market an ice bowl, the Thermalite, as illustrated at left (capacity 2 lb.), with aluminium casing, polished and anodised, in shades of crimson and gold; and a Thermalite picnic jug (capacity 1 gall.) in white/red or white/blue. —

GODDARD, JENNINGS & CO., LTD., 77 Milkwood Road, London, S.E.24, have produced an ice-bucket that keeps ice frozen for a whole evening, looks attractive, and sells at a moderate price. Construction is on the lines of the rest of the Polytemp range: double-wall polystyrene, with transparent outer wall so that the check pattern of the "string vest" interlining shows through. It may also be used for hot liquids.

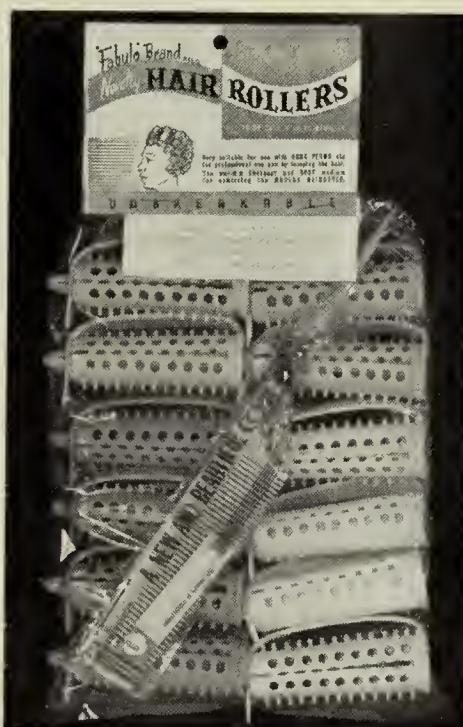
pastel colours in display carton. It has three rows of teeth and is 8½ in. long.



Home Salon Hairdryer.—A new home salon hairdryer has been introduced by Pifco, Ltd., Watling Street, Manchester, 4. Its special feature is its Circulair system of air flow, which is claimed to secure a constant circula-



Bouffant Curlers.—Haetam, Ltd., 63 Corporation Street, Manchester, 4, have produced a special "advertisement pack" of their bouffant curlers and



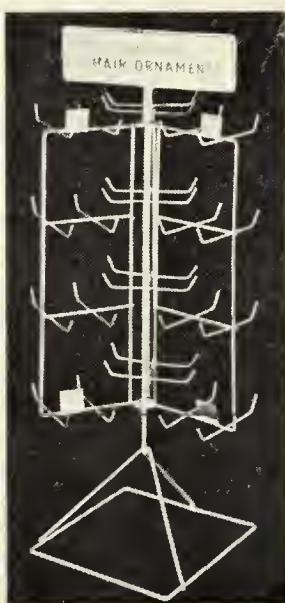
an all-purpose comb in plastic for back-combing, scalp massaging and curling. The comb, which is unbreakable is also available in a pack of 1 doz. assorted



tion of air around the hair, penetrating into the tightest curls, "which may be set without risk of disturbance in modern bouffant and similar styles." The hairdryer has its own floor stand and is self-supporting and adjustable. The plastic hood, available in pink, blue or white, has a transparent acrylic cowl with rim to match the hood. A five-position indicator switch allows the user to select hot, warm or cold air as required.

Silicone Teats.—The Suba-Seal silicone teats manufactured by William Freeman & Co., Ltd., Staincross, Barnsley, Yorks, are claimed to be odourless, translucent, tasteless and non-toxic. The silicone rubber composition ensures that not only are the teats non-porous and water repellent, but prevent milk from being absorbed during the feed and also prohibit the absorption of sterilising fluids. An important feature is that no matter how often the teats are sterilised they do not swell or soften and the hole size remains constant. The teats are offered in two styles, first with a wide and the second with a narrow mouth.

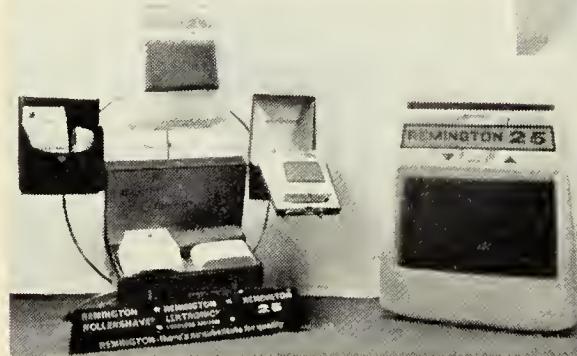
CURRENT DISPLAY MATERIAL



WIRE-FRAME DISPLAY STANDS: Left and centre, Stands for Atrix hand-care product (Southalls (Sales), Ltd., Roekville Road, Saltley, Birmingham, 8) and Johnsonplast zinc-oxide plasters (Johnson & Johnson (Gt. Britain), Ltd., Slough, Bucks) by Display Work, Ltd. Right, Frame for hair ornaments produced to a manufacturer's order by McKenzie Shortt Displays, Ltd., 37a High Street, Kingston-upon-Thames, Surrey.



SHADE CARD: The shade card illustrated, which has been produced by Gibbs-Pepsodent, Ltd., Hesketh House, Portman Square, London, W.I., for their Harmony hair colourants, enables the assistant, by turning a dial, to arrive at the selection of Harmony shade most suitable for the natural colour of the customer's hair.



POINT-OF-SALE DISPLAYS: Stands produced by Remington Electric Shaver, Ltd., 26 Kensington High Street, London, W.8. The one shown at left highlights the recently introduced Remington 25 shaver. A faesimile of the new shaver, on the right of the picture, lights up, as does that on the display (top centre). Also featured are the company's cordless shaver, the Lektronic, and the Rollershaver. The wire frame stand above is for the same three products.



SHOWING THE WHOLE SERIES: Show material produced for Woodward's range of nursery products by W. Woodward, Ltd., Sani-tas House, Clapham Road, London, S.W.9, and for the Rimmel "Beauty-on-a-budget" series of cosmetics by Rimmel, Ltd., 62 Baker Street, London, W.I.



TO GIVE A "STRONG VISUAL IMAGE": The show material illustrated has been produced by Parke, Davis & Co., Staines Road, Hounslow, Middlesex, to present "a strong visual image" of Euthymol tooth-paste that is at the same time novel and attractive. Supplies are available either direct from Hounslow or on application to the company's local representative.



Club's Comic, given with each tube of Gibbs fluoride tooth-paste. Manufacturers are Gibbs-Pepsodent, Ltd., Hesketh House, Portman Square, London, W.I.

SOAP AND TALC DISPLAY: Display designed by Morny, Ltd., Wadsworth Road, Perivale, Middlesex (Morny of Regent Street) to promote sales of their perfumed soaps and "fragrance-matched" talcs. The display has a gold background. Its height is 14 in.; width 16½ in.; and depth 11 in.

"TUMBLE" DISPLAY: For two months the "tumble" display illustrated is available for distribution of free copies of Arrow, the Ivory Castle Club's Comic, given with each tube of Gibbs fluoride tooth-paste. Manufacturers are Gibbs-



CUMULATIVE LIST OF AMENDMENTS TO THE C.&D.
Quarterly Price List

JUNE

2nd Debut (366 Dendron)						
clinical vial ..	53	3	14	7	8	6
Acecoline (49 AF)						
ampoules 0.10 gm in 1 ml 8	57	0	—	—	8	4
0.20 gm in 1 ml 8	72	0	—	—	8	0
Achromycin (746 Lederle)						
capsules 50 mgm ..	25	6	10ea	—	10	3 TS
100 ..	25	10ea	—	38	9	TS
250 mgm ..	16	18	6ea	—	27	9 TS
100 ..	110	10ea	—	166	3	TS
1000 ..	1069	8ea	—	1604	6	TS
for ear solution						
vial powder .. 50 mgm }	4	4ea	—	6	6	TS
vial diluent .. 10 cc }						
for oral suspension						
1.5 gm vial .. 1 oz	6	10ea	—	10	3	TS
intramuscular vial 100 mgm	3	4ea	—	5	0	TS
intravenous vial 250 mgm	6	2ea	—	9	3	TS
500 mgm ..	11	0ea	—	16	6	TS
ointment 3% 30 mgm ½ oz	2	10ea	—	4	3	TS
1 oz ..	5	2ea	—	7	9	TS
ophthalmic ointment 1% 6	4	4ea	—	6	6	TS
powder sterilised .. vial	3	6ea	—	5	3	TS
oil suspension 1%						
10 gm/cc dropper .. 6 cc	1	4ea	—	2	0	TS
paediatric drops .. 10 cc	4	8ea	—	7	0	TS
soluble tablets .. 100	25	10ea	—	38	9	TS
syrup ..	2 oz	6	10ea	—	10	3 TS
16 oz ..	49	8ea	—	74	6	TS
tablets 50 mgm ..	25	6	10ea	—	10	3 TS
100 ..	25	10ea	—	38	9	TS
250 mgm ..	16	18	6ea	—	27	9 TS
100 ..	110	10ea	—	166	3	TS
1000 ..	1069	8ea	—	1604	6	TS
troches 15 mgm ..	25	2	8ea	—	4	0 TS
Achromycin, V (746 Lederle)						
capsules 50 mgm ..	25	6	10ea	—	10	3 TS
100 ..	25	10ea	—	38	9	TS
250 mgm ..	16	18	6ea	—	27	9 TS
100 ..	110	10ea	—	166	3	TS
pediatric drops .. 10 cc	4	8ea	—	7	0	TS
syrup ..	2 oz	6	10ea	—	10	3 TS
16 oz ..	49	8ea	—	74	6	TS
Acriflex (34 A&H)						
small ..	12	0	—	1	6	
Aerocol (1232 T&R)						
palm relieving spray ..	36	0	—	5	0	
Albamycin (1263 Upjohn)						
parenteral 500 mgm ..	21	8ea	—	—	TS	
Aldis (884 NB)						
automatic projector CPS	..	..	..	720	0	
automatic projector XT150	..	..	..	279	6	
"303" projector with						
8.5 cm f/2.5 lens and						
slide carrier ..	DP/1	..	..	330	0	
Alfonal (29 Alfonal)						
evaporated separated milk with						
vegetable fat, 4 oz. 6 oz	35	2	—	11		
8 oz ..						
separated milk with						
vegetable fat 16 oz						
Alimax (147 Boots)						
80 oz ..						
tablets 30 ..						
Ambramycin (394 Nicholas)						
capsules 250 mgm ..	16	13	6ea	—	27	9
60 ..	66	5ea	—	99	8	
250 ..	269	2ea	—	403	9	
oral suspension 2.5% 60 mils	6	10ea	—	10	3	
Anacobin (179 BDH) ampoules						
Andre Philippe (48 AP)						
bath crystals, swan dimple 21						
cubes (6) ..	..	16				
gift pack ..	..	4				
cream shampoo ..	11					
lacquer ..						
Master ..	11	33	0	8	3	4
perfume "X" ..	19	10	0	2	6	1
sun tan oil ..	23	12	0	3	0	1
lacquer spray perfumed 8	12	0	3	0	1	9
perfumed deodorant						
spray ..	25	12	0	3	0	1
scent spray ..	26	20	0	5	0	2
					11	1

Andrews (978 PS&T)						
liver salt ..	4 oz	17	11	4	6	2
	8 oz	28	10	7	2½	3
diabetic ..	8 oz	32	2	8	0½	4
Insert	Anestan (690 Keldon)	..	..	..	..	↑
Anovlar (1107 SAGB)						
(distributors 973 Pharmethicals)						
tablets ..	20	5	10ea	—	8	9
	100	26	3ea	—	39	5
Anscochrome (1343 DW)						
film, colour reversal						
35 mm. ..	20 exp.	..	..	..	23	9
	36 exp.	..	..	..	35	0
rollfilm 127 ..	..	..	..	..	17	9
120 ..	..	..	..	..	19	2
easiloader 3 x 20 exp.	..	..	..	..	79	6
home processing kit ..	..	..	..	..	18	6
Delete	Antabac (695 TK) tablets					
Anusol HG (1310 WW)						
suppositories ..	12	93	0	—	—	TS
Arpege (730 Lanvin)						
toilet water ..	4 oz	..	..	..	45	0
	8 oz	..	..	..	70	0
Arrowmint (1223 TWC)						
chewing gum ..	40 pkts	7	7	11	3	
Arvin (438 ER)						
electric shaver syncromatic ..	..	63	0ea	15	9ea	99
						6

THIS WEEK'S CHANGES
AT END OF LIST

Atomcoll (287 Collo)						
cleaner ..	20	0	5	0	2	11
Atromid (649 ICI)						
capsules 250 mgm ..	250	75	0ea	13	9ea	131
Aureomycin (746 Lederle)						
capsules, 50 mgm ..	25	6	10ea	—	10	3 TS
	100	25	10ea	—	38	9 TS
250 mgm ..	18	13	6ea	—	27	9 TS
	100	110	10ea	—	166	3 TS
	1000	1069	8ea	—	1604	6 TS
ear solution, 50 mgm vial	4	4ea	—	6	6	TS
ointment, 3%, 30 mgm ½ oz	2	10ea	—	4	3	TS
1 oz ..	5	2ea	—	7	9	TS
ophthalmic 1%.						
10 mgm 6 x ½ oz	4	4ea	—	6	6	TS
syrup ..	4 oz	13	8ea	—	20	8 TS
	16 oz	49	8ea	—	74	6 TS
Auto-Carena (980 Photopia)						
universal case ..	K7	86	2ea	21	0ea	150
Ayroware (78 AS & Co)						
rubber gloves ..	..	30	0	3	0	3
Ayton (76 AS & Co)						
glucose powder .. 1 lb	15	3	—	1	9	
tablets ..						
heart shaped indigestion ..	40	10	8	2	8	1
Ayrtosect (78 AS & Co)						
insect powder ..	12	0	—	1	6	
Bablets (485 Fulford)						
trial size ..						
Barbevite (1451 BDH)						
500 mils ..	11	8ea	—	—		†4A
2 litres ..	40	2ea	—	—		†4S
Delete	20 oz & 30 oz					
Bathjoys (1037 Reckitt)						
talc ..	20	8	5	0½	3	0
Bauer (884 NB)						
cine camera ..	88K	..	..	..	1199	9
Delete	Beauty on a Budget (1063 Rimmel)					
existing entries ..						
Insert	Beauty on a Budget (1063 Rimmel)					
anti-wrinkle lotion ..	10	3	2	8	1	8
cleansing milk ..	10	3	2	6	1	6

the original half-volume, ideally balanced, TRIPLE ANTIGEN

* DIPHTHERIA

* TETANUS

* WHOOPING COUGH



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

deodorant spray ..	10 3	2 6	1 6		argentoprotein 5% ..	28 0	7 0	4 1
stick ..	10 3	2 6	1 6		mltis .. 20%	44 0	11 0	6 5
eye pencils ..	10 3	2 6	1 6		chloransulfa ..	34 0	—	4 3
shadow stick ..	10 3	2 6	1 6		rutin soluble 10% ..	96 0	—	12 0
cream ..	10 3	2 6	1 6		aveline ..	28 0	7 0	4 1
face cleansing pads ..	10 3	2 6	1 6		intermedine ..	184 0	—	23 0
face powder ..	10 3	2 6	1 6		Insert Chiclets (9 ABS) ..	7 7	1 1	7
compressed ..	10 3	2 6	1 6		(20 pkts) (20 pkts)			
hair colourant ..	10 3	2 6	1 6		Cirolyl (938 PD) ..			
hair lacquer refill ..	10 3	2 6	1 6		suspension .. 4 oz	34 0	8 6	4 11
hair lacquer spray ..	10 3	2 6	1 6		80 oz	36 0ea	9 0ea	63 0
hair removing cream ..	10 3	2 6	1 6		Clovercide (1208 Syn) ..			
hand beauty cream ..	10 3	2 6	1 6		weedkiller .. trial 4 oz	2 6
lipsticks ..	10 3	2 6	1 6		1 pt	7 6
liquid liner for eyes ..	10 3	2 6	1 6		Codural (248 Charnwood) ..	21 6	5 4	3 0
liquid liner brush ..	10 3	2 6	1 6		Colbenemid (837 MSD) ..	100	49 0ea	12 3ea
liquid make-up ..	10 3	2 6	1 6		Colgate (280 CP) ..	29 2	7 2	1 11
mascara block ..	10 3	2 6	1 6		toilet soap (5) ..	(10 doz.) (10 doz.)		
mascara roll-on ..	10 3	2 6	1 6		Coltastape (1155 S&N) ..			
nail lacquer ..	10 3	2 6	1 6		zinc and coal tar bandage, B.P.C. ..	30 0	—	3 6
remover ..	10 3	2 6	1 6		Comédome (1460 Dome) ..			
oatmeal beauty pack ..	10 3	2 6	1 6		acne stick .. 38 gm	82 0	20 0	11 11
perfume ..	10 3	2 6	1 6		Contraband (365 Demuth) ..			
perfumed cologne ..	10 3	2 6	1 6		(distributors 327 WC) ..			
rouge compressed ..	10 3	2 6	1 6		perfume .. 2 cc	24 0	6 0	3 6
cream ..	10 3	2 6	1 6		2 dr	46 3	11 7	6 9
skin moisturiser ..	10 3	2 6	1 6		Delete Cornel (1229 T&C) ..			
skin tonic lotion ..	10 3	2 6	1 6		Coronet (298 Coronet) ..			
spot clearing cream ..	10 3	2 6	1 6		camera Commander	52 11
talcum ..	10 3	2 6	1 6		Rapler Mk II	50 9
twin powder puffs ..	10 3	2 6	1 6		roll film pan. 828, 127, 120, 620	3 2
vitamin skin food ..	10 3	2 6	1 6		Cortico-Gel (324 Crookes) ..			
Whiteglow ..	10 3	2 6	1 6		long-acting 80 i.u./mil 5 mils	50 0ea	—	—
Benbows (506 Gerhardt) ..					Insert Cosy (980 Photopia) ..			ts4B
canker lotion ..	30 0	7 6	4 0		flashgun .. P6	14 4ea	3 6ea	25 0
Delete Bidizole (971 PSMB) ..					model 11 .. P18	20 0ea	4 10ea	34 10
Delete suspension .. 1 litre .. 250				Countess Csaky (1463 C194) ..				
Bio-Clear (596 HR) ..				aerated snow .. 1 oz	..	..	8 6
coverfluid ..	64	—	9 6	beauty box ..	..	..	120 0
cream ..	60	—	7 6	hand cream .. 2 oz	..	..	38 0
minute make-up ..	65	—	7 6	8 oz	..	..	10 6
pore lotion ..	62	—	8 6	hormone cream .. 1 oz	..	..	9 0
shampoo ..	67	—	5 6	Jeunesse .. 1 oz	..	..	28 6
wash ..	61	—	9 6	liquifying cleansing cream .. 2 oz	..	..	52 6
Bisedia (512 GS) ..	4 oz	6 0ea	—	8 oz	..	..	22 0
	8 oz	11 0ea	—	16 oz	..	..	15 0
	16 oz	21 0ea	—	Secret .. 2 oz	..	..	Suprema .. 2 oz
	40 oz	49 0ea	—	Sun Gold .. 2 oz	..	..	vitamin skin food .. 2 oz
	96 oz	112 0ea	—	Courier (601 HSS) ..				
Bisk-o-Lem (175 BCP) ..				Insert Courier (1189 GS&S) ..				
pure lemon juice ..	19 oz	42 7	6 5	Crescendo (730 Lanvin) ..				
Bliss (160 Bliss) ..				toilet water .. 4 oz	..	..	45 0
hot water bottle ..	42 0	—	—	8 oz	..	..	70 0
Boncilla (493 Gambles) ..				Delete Cullingford (331 CofC) existing entries				
clasmic pack ..	18 3	4 7	2 6	Insert Cullingford (331 CofC) ..				
lemon pack ..	18 3	4 7	2 6	basket of fruit salad ..	72 0	17 6	10 6	
Bonny Bouncer (436 Evans) ..				bubble bath ..	17 0	4 2	2 6	
baby's exercise harness ..	43 4ea	—	65 0	lemon soap ..	10 2	2 6	1 6	
Breeze (756 Lever) ..				Walt Disney picture soaps ..	6 11	1 8	1 0	
soap bath size ..	3 doz	33 10	8 3	bath gems series ..				
Brocade (215 Caldey) ..				Amalfi ..	80 9	19 8	11 9	
eaux de toilette 1 oz T127 ..	86 0	22 0	12 0	Berkeley ..	51 6	12 7	7 6	
Insert Bronica (1017 PO) ..				Capri ..	74 0	18 0	10 9	
'S' reflex camera f/2.8 ..				Dorchester ..	135 0	32 11	19 6	
lens ..	..	..	4697 1	Mayfair ..	107 0	26 1	15 6
case ..	..	..	142 8	Minor ..	20 8	5 0	3 0
Bronnley (194 Bronnley) ..				Napoli ..	88 0	21 5	12 9	
pre make-up cream ..	..	..	9 6	Ritz ..	74 0	18 0	10 9
Cadbury (216 Cadbury) ..				Savoy ..	74 0	18 0	10 9	
diabetic chocolate ..				Waldorf ..	34 6	8 5	5 0	
assorted ..	..	..	35 4	Christmas tree series ..			
plain ..	..	..	16 6	Lantern after-shave lotion ..	22 0	5 4	3 3
almond ..	..	..	18 10	bath essence ..	24 0	5 10	3 6
Caladryl (938 PD) ..	4 oz	24 0	6 0	bath gems ..	22 0	5 4	3 3	
Caidey (215 Caldey) ..			3 6	guest soap ..	17 6	4 3	2 6	
bath essence (fern, lavender, rose, verbena) ..	..	1 oz	42 0	Pixie box lavender ..	14 0	1	9
eaux de toilette (No. 1) ..	..	1 oz	97 0	gift series ..	48 0	11 8	7 3
(gorse) ..	..	1 oz	79 0	gift box (A) ..	43 0	10 6	6 3
potpourri ..			20 0	gift box (B) ..	36 0	8 9	5 0	
lavender sachet card ..	18 0	5 0	2 6	Popeye with cord ..				
rose sachet card ..	24 0	6 0	3 0	Lenny series ..				
sachet card ..	24 0	6 0	3 0	Lenny coloured ..	19 6	4 9	2 9	
California (976 PS&T) ..				with face cloth ..	34 0	4 9	4 8	
syrup of figs ..	..	16 2	4 0	Noddy series ..			
		7 11	2 2	Big Ears handpainted ..	19 6	4 9	2 9	
Calisimil (179 BDH) ..		31 8	4 3	unpainted ..	9 0	2 2	1 3	
tablets ..	..	60	34 0	Noddy handpainted ..	19 6	4 9	2 9
		500	130 0	unpainted ..	7 0	1 8	1 0	
Camyna (154 B) ..			16 3	Noddy car handpainted ..	19 6	4 9	2 9	
tincture ..	20 mils	4 3ea	1 1ea	unpainted ..	9 0	2 2	1 3	
Capriton (34 A&H) tablets 12 ..	26 4	6 7	3 10	bubble bath ..	39 0	9 6	5 6	
Caress (1242 Tonl) ..				picture soaps ..	19 6	4 9	2 9	
hard-to-hold aerosol ..	..	51 2	12 9	toothpaste ..	14 3	3 6	1 11
puffer spray ..	..	26 5	6 7	Mr. Plot painted ..	19 6	4 9	2 9
refill ..	..	15 10	3 11	unpainted ..	9 0	2 2	1 3
Carisoma (1441 Wallace) ..			2 3	Sooty series ..				
tablets 125 mgm ..	..	34 6ea	8 7	coloured ..	19 6	4 9	2 9
350 mgm ..	..	10 0ea	2 6ea	wlth face cloth ..	34 0	4 9	4 8
		250	47 6ea	picture soaps ..	14 0	3 5	2 0	
Check (665 JS) ..			8 7					
Insert aerosol perfumed ..		48 2	11					
Chibret (276 C&C) ..			7 0					
collyrium ..								

Micoren (501 Geigy) ampoules 225 mgm/1.5 mil 20 20 0ea — 30 0	Nivemycin (147 Boots) dental tablets .. 30 52 0 — 6 6 TS
Milical (451 F&J) slimming biscuits .. 59 0 — 4 11	Delete Nizo (1017 PO) existing entries
Milk of Magnesia (976 PS&T) liquid 16 2 4 0½ 2 2 31 8 7 11 4 3	Insert Nizo (1017 PO) cline camera FA3 2387 9 case 242 1 chest pod 65 8
Mil-Par (976 PS&T) .. 17 0 4 3 2 3 28 4 7 1 3 9 44 9 11 2½ 5 11	Norlutin-A (938 PD) tablets 30 10 0ea — 15 0 ts4B 100 30 0ea — 45 0 ts4B 500 135 0ea — 202 6 ts4B
Mimi (900 Norton) magic cat 22 6 5 7½ 3 3	Norestrin (938 PD) tablets 20 80 0 — 10 0 ts4B 100 30 0ea — 45 0 ts4B
Mini-Sax (430 Eucryl) Tablets 150 8 0 — 1 0	Delete Nupa-Sal (1154 S&N) tablets 100 mgm and 250 mgm 500's
Miss Ayer (852 Molyneux) invisible base 9 0	Nuvan (262 CIBA) acrosol 48 0 — 6 0
rapid cleanser 9 0	Odo-Ro-No (493 Gambles) cream 12 2 3 1 1 8 tonic lotion 18 3 4 7 2 6
transparent powder 10 0	liquid regulator 7 4 1 10 1 0
transparent rose lipstick 7 6	14 7 3 8 2 0
Morny (862 Morny) after-shave lotion .. 621 3 6	roll-on perfumed 31 6 8 0 4 4
.. 622 5 6	refill 25 6 6 6 3 6
Delete bath essence 445 7 6	spray 23 8 5 11 3 3
bath salts tablets .. 6 450 3 6	stick unperfumed 18 10 4 9 2 7
12 451 6 6	perfumed 20 0 5 0 2 9
Insert 144 452 72 0	Delete Okasa (802 Martindale)
brilliantine solid jar .. 271 4 6	Insert Okasa (623 Hormo)
dusting powder .. 435 7 6	Omy (331 C of C) bath essence bljou 29 3 7 1 4 3
with puff .. 431 10 0	dimple 44 0 10 9 6 6
hand cream .. 390 5 6	small 48 0 11 8 7 0
perfume flaskette .. 132 4 3	medium 120 0 29 3 17 6
medium flask .. 134 12 6	large 240 0 58 6 35 0
de luxe .. 138 63 0	bath soap 27 0 6 7 4 0
shaving bowl .. 550 7 0	guest soap bandbox 24 0 5 10 3 6
refill 551 3 3	sachet boule 29 3 7 1 4 3
stick refill .. 571 2 9	twin pack 60 0 14 7 8 9
skin perfume .. 195 5 6	Delete gift box A4
.. 196 9 6	Ortho-Novin (922 Ortho) tablets 20 80 0 — 10 0 ts4B
soap visitors disks (6) 512 4 6	.. 60 212 0 — 26 6 ts4B
talcum tin .. 600 3 6	500 128 0ea — —
plastic .. 605 7 6	Osbil (971 PSMB) tablets 0.5 gm 6 x 6 18 4ea — 27 6
refill .. 606 3 6	Insert Oteg (1202 Surface) egg preservative for 100 eggs 27 0 — 2 9
Morphy-Richards (863 MR) electric blankets ..	250 eggs 39 0 — 4 0
Rose Bliss 79 6	1 gall 25 6ea — 30 0
.. 112 6	Delete Outdoor Girl (876 MP) existing entries
Delete Regent single and double ..	Insert Outdoor Girl (876 MP) cover girl stick .. 2016 10 4 2 7 1 6
Delete Imperial single and double ..	eyebrow pencil .. 2941 8 0 2 0 1 2
hair dryer stand 7 6	propelling .. 2940 17 2 4 3½ 2 6
Mothak (430 Eucryl) fly killer aerosol 10 oz	king size .. 2949 10 4 2 7 1 6
Mothaks (430 Eucryl) 13 6 1 6	eye brush .. 2955 10 4 2 7 1 6
My Sin (730 Lanvin) toilet water 4 oz 38 0	eye liner water colour 2043 10 4 2 7 1 6
.. 8 oz 58 0	eye make-up Selfasta ..
Mysteclin V (1176 Squibb) capsules 12 13 10ea — 20 9 TS	unit .. 2100 62 0ea 15 6ea —
.. 100 110 10ea — 166 3 TS	eye shadow cream .. 2946 10 4 2 7 1 6
.. 500 534 10ea — 802 3 TS	pressed .. 2945 10 4 2 7 1 6
Delete Nair (1003 PP) cream jar 4 oz	face powder .. 2010 10 4 2 7 1 6
sachet 2 doz 14 1 3 6 1 11	hair colour .. 2086 17 2 4 3½ 2 6
lotion 4 oz 43 0 10 9 5 10	conditioner .. 2084 17 2 4 3½ 2 6
Natirose Nativelle (1336 WJ&C) dragees 50 60 0 15 0 8 9 ts1	lacquer .. 2083 17 2 4 3½ 2 6
Nervone (887 New Era) tablets	refill .. 2081 10 4 2 7 1 6
.. 51 4 12 10 7 6	lightener .. 2085 17 2 4 3½ 2 6
.. 128 0 32 0 18 8	hand cream .. 2074 10 4 2 7 1 6
.. 205 4 51 4 30 0	lipstick trial .. 2920 8 0 2 0 1 2
Neutradonna (187 BS) tablets 60 50 0 — 5 7 ts7	swivel .. 2921 17 2 4 3 2 6
Neutradonna Sed (187 BS) powder 100 gm 66 0 — 7 4 ts4A	swivel Selfasta 2929 51 6ea 12 10½ea —
tablets 60 54 0 — 6 0 ts4A	Sweetheart .. 2922 10 4 2 7 1 6
New Yorker (1092 Saga) hair spray 24 0 6 0 3 6	Sweetheart Selfasta .. 2928 62 0ea 15 6ea —
Nexa (436 Evans) moth proofer 20 0 —	mascara block .. 2051 10 4 2 7 1 6
Nibiol (346 Dales) tablets 60 11 8ea 2 11ea 20 5	cream .. 2950 10 4 2 7 1 6
Nikkorex (1017 PO) 8 cline camera	curl-on .. 2953 10 4 2 7 1 6
leather case 165 4	luxury .. 2954 17 2 4 3½ 2 6
Zoom 8 cline camera 1338 6	moisture cream .. 2061 17 2 4 3½ 2 6
leather case 113 11	nail hardener .. 2034 17 2 4 3½ 2 6
Zoom 35 mm reflex	nail magic .. 2035 10 4 2 7 1 6
camera 1772 4	pearl .. 2037 17 2 4 3½ 2 6
leather case 122 6	remover .. 2036 10 4 2 7 1 6
F camera	over-30 cream .. 2061 17 2 4 3½ 2 6
flash gun B.C.6 82 10	perfume .. 2070 10 4 2 7 1 6
flash gun B.C.5	2071 17 2 4 3½ 2 6
Nikon (1017 PO) F Photomic camera	2072 24 0 6 0 3 6
satin chrome	pressed powder refill .. 2011 10 4 2 7 1 6
with 50 mm f/2 lens 3516 1	rouge cream .. 2939 10 4 2 7 1 6
with 50 mm f/1.4 lens 4344 1	dry .. 2038 10 4 2 7 1 6
F Photomic camera black finish	shadow stick .. 2947 10 4 2 7 1 6
with 50 mm f/2 lens 3655 7	silk touch .. 2017 10 4 2 7 1 6
with 50 mm f/1.4 lens 4483 7	skin milk .. 2060 10 4 2 7 1 6
Ninona (210 B&C) washing squares 14 0 — 1 9	tonic .. 2060 10 4 2 7 1 6
	talcum .. 2077 17 2 4 3½ 2 6
	2076 13 8 3 5 2 0
	velour puffs (two) .. 2018 10 4 2 7 1 6
	Owbridges (925 Owbridge) lung tonic
	18 4 4 7 2 6
	31 8 7 11 4 3
	44 0 11 0 5 11
	Pagliari (1372 CCL) baby talc .. standard 21 4 5 2½ 2 11
	economy 40 8 9 11 5 6
	refill 12 2 2 11½ 1 8

Felice Azzura talc standard	23	3	5	8	3	2		No. 2 dry skin astringent	111.13	..	..	..	19	6			
economy	44	6	10	11	6	1		111.15	..	..	..	..	31	3			
refill	12	2	2	11½	1	8		111.17	..	..	..	..	61	6			
Paramisan (1154 S&N) sodium								No. 3 sensitive skin tonic	116.13	..	..	..	19	6			
<i>Delete</i> pashets 1.5 gm.	..	300						116.15	..	..	..	..	31	3			
<i>Delete</i> tablets 0.5 gm.	..	250						116.17	..	..	..	..	61	6			
Paris Mist (654 Innoxa)								hydramnolique tonic	118.13	..	..	..	42	0			
skin perfume ..	small	83	0	20	9	12	6	118.15	..	..	..	..	68	0			
atomiser ..	large	115	0	28	9	17	6	amnoloderm ..	119.73	..	..	..	42	0			
Parke-Davis (938 PD)								No. 5 acne ..	121.13	..	..	..	15	6			
<i>Delete</i> aspirin compound tablets	100							121.15	..	..	..	..	22	9			
Pasif (67 Ashe)								No. 6 greasy skin astringent	126.13	..	..	..	19	6			
travel-sickness tablets	25	18	0	—	2	3	†	126.15	..	..	..	..	31	3			
Pasinah-D (1303 Wander)								bleue tired eyes	131.13	..	..	..	15	6			
PAS sodium								131.15	..	..	..	..	22	9			
6 gm + 150 mgm INAH	60	47	6ea	—	71	3	TS	speciale obstinate acne ..	141.13	..	..	..	21	0			
Paterson (637 Hunter)								141.15	..	..	..	..	33	9			
viewers								golden rays ..	153.13	..	..	..	21	0			
pocket ..	2 x 2	—	—	—	7	8		153.15	..	..	..	..	32	3			
Royal triple lens ..	..	—	—	—	84	0		153.17	..	..	..	..	62	6			
Paximat (1017 PO)								153.19	..	..	..	..	105	0			
<i>Insert</i> projectors								tube	153.54	..	..	..	12	9			
N12 electric..	..	..	..	..	899	6		mascara refill	401.80	..	..	..	6	0			
N24 de luxe ..	..	..	..	..	990	0		mauve plastic case	404.70	..	..	..	16	3			
case ..	..	..	..	..	99	8		mask amnioderm	818.11	..	..	..	42	0			
<i>Delete</i> Paximat S (1017 PO) existing entries								maskoderm ..	801.11	..	..	..	16	0			
<i>Insert</i> Paximat S (1017 PO)								masque iradie ..	811.55	..	..	..	16	0			
projectors								masque rose ..	816.55	..	..	..	16	0			
autochange 300 ..	..	..	..	..	659	8		regenoserum, 10 ampoules	821.70	..	..	..	83	0			
electric 300 ..	..	..	..	..	779	6		sundries,									
case standard ..	..	..	..	..	50	6		wax depilatory	851.71	..	..	..	12	6			
dual purpose ..	..	..	..	..	107	6		deodorant ..	856.71	..	..	..	14	3			
lamp ..	..	..	..	..	33	0		soap toilet size ..	861.71	..	..	..	5	0			
<i>Insert</i> Paxiscope (1017 PO)								(3)	861.73	..	..	..	13	9			
viewer ..	..	..	..	..	130	0		bath size	861.72	..	..	..	9	8			
<i>Delete</i> Payot (Dr.) (664 JS&C)								Periactin (837 MSD)									
<i>Insert</i> Payot (Dr.) (945 Payot)								syrup ..	..	4 oz	4	0ea	1	0ea	7	0	ts?
cream solaire ..	291.55	..	..	..	15	9		16 oz	14	6ea	3	7½ea	25	4½ts7			
cream demaquiller	201.12	..	..	..	17	6											
201.14	..	..	..	..	28	3		Personna (438 ER)									
No. 2 herbal for								blades double edge ..	23	11	6	0	3	6			
sensitive skins	204.11	..	..	..	17	6		<i>Insert</i> Petri (637 Hunter)									
204.12	..	..	..	..	28	3		exposure meter ..	..	..	..	..	77	0			
stimulation ..	207.11	..	..	..	21	0		cameras									
207.12	..	..	..	..	32	3		Blue Scope-f/2·8 lens ..	..	..	..	..	413	3			
207.14	..	..	..	..	51	9		case ..	..	..	..	..	65	10			
tube ..	207.52	..	..	..	12	9		Half-Seven f/2·8 lens ..	..	..	..	..	448	9			
hormone ..	208.11	..	..	..	19	8		case ..	..	..	..	..	46	10			
208.12	..	..	..	..	28	3		Prest f/2·8 lens ..	..	..	..	..	542	11			
embryonnaire ultra								case ..	..	..	..	..	69	2			
penetrant..	212.11	..	..	..	32	9		Seven f/2·8 lens ..	..	..	..	..	524	4			
212.12	..	..	..	..	61	6		Seven f/1·8 lens ..	..	..	..	..	679	2			
212.14	..	..	..	..	63	0		case ..	..	..	..	..	65	10			
tube ..	212.52	..	..	..	21	0		Petriflex Vf·2 lens ..	..	..	..	..	1171	3			
regenoderm ..	215.52	..	..	..	21	0		case ..	..	..	..	..	71	2			
amnioderm ..	218.11	..	..	..	72	0		Petriflex V11f·1·8 lens ..	..	..	..	..	1529	3			
218.12	..	..	..	..	105	0		case ..	..	..	..	..	95	8			
pate grise ..	231.15	..	..	..	17	8		8 cine ..	..	..	..	..	439	5			
gelee camphese	236.55	..	..	..	21	0		case ..	..	..	..	..	66	10			
No. 6 ..	238.53	..	..	..	9	3		8 Zoom ..	..	..	..	..	1074	2			
No. 3 vanishing								case ..	..	..	..	..	68	7			
dry skins ..	261.11	..	..	..	13	3		Petron (1021 Supervite)									
261.12	..	..	..	..	18	6		universal atomiser ..	..	26	9	6	8	3	11		
greasy skins	261.52	..	..	..	9	3		Philips (977 PE)									
262.11	..	..	..	..	13	3		electric blanket	EA1215	98	3ea	24	0ea	165	0		
262.12	..	..	..	..	18	6		EA1225	125	2ea	30	7ea	197	6			
normal skins	263.11	..	..	..	9	3		EA1214	75	9ea	18	6ea	119	8			
263.12	..	..	..	..	18	8		EA1224	106	6ea	26	0ea	168	0			
framboise ..	263.52	..	..	..	9	3		EA1223	EA1213								
268.12	..	..	..	..	18	6		hand hair dryer	HK4100	44	4ea	10	10ea	69	11		
268.14	..	..	..	..	34	0		hose & air-diffuser									
cream hydriane	269.23	..	..	..	27	9		hood ..	HK4101	25	4½ea	6	2ea	40	0		
stimulation with								stand ..	HK4102	8	8½ea	11ea	12	6			
hydroseve	272.11	..	..	..	21	0		hood hair dryer	HK4110	107	9ea	26	4ea	170	0		
272.12	..	..	..	..	32	3		stand ..	HK4112	29	4ea	2	11ea	42	0		
"Tayane" ..	272.53	..	..	..	12	9		Philishave (977 PE)									
tube ..	277.72	..	..	..	27	3		floating head model ..	7860	98	3ea	24	0ea	155	0		
creme satin ..	275.74	..	..	..	21	0		battery model ..	7779	..							
279.52	..	..	..	..	12	9		Ladyshave ..	7780	..							
279.72	..	..	..	..	21	0		standard ..	7918	..							
cream rouge ..	428.71	..	..	..	11	0		battery model ..	7930	71	4ea	17	5ea	112	6		
creme fluid ..	292.24	..	..	..	21	0		Envoy with floating									
compressed face powder								heads	7960	109	4ea	26	8ea	172	6		
535.70	..	..	..	..	18	6		Superjet ..	7920	79	11ea	19	6ea	126	0		
refill in mauve plastic								home barber kit ..	7864	26	7½ea	6	6ea	42	0		
case ..	534.80	..	..	..	12	6		Photopia (980 Photopia)									
refill puffs, six	533.80	..	..	..	16	0		camera 66 ..	P1	60	2ea	14	9ea	105	0		
contour lip pencil	487.70	..	..	..	21	0		case ..	P2	22	2ea	5	5ea	38	8		
489.80	..	..	..	..	6	0		Pifco (983 Pifco)									
eyebrow pencils	406.70	..	..	..	5	0		electric blankets									
contour pencils	409.70	..	..	..	21	0		Celebrity single	1367	50	6ea	12	3ea	79	6		
refills ..	408.80	..	..	..	6	0		double	1368	66	7ea	16	3ea	105	0		
eye shadow ..	421.71	..	..	..	11	0		Popular single									

Pitocin (938 PD)	Radio-Malt (179 BDH)
ampoules	jar 1 lb 42 0 — 5 0
(1 unit/ml) 2 mils	2 lb 75 0 — 8 11
30	17 10ea — 26 9 ts4B
(10 units/ml) 0.5 mils	5 4ea — 8 0 ts4B
12	10 4ea — 15 6 ts4B
50	39 0ea — 58 6 ts4B
100	76 0ea — 114 0 ts4B
1 ml	6 5 8ea — 8 6 ts4B
12	11 0ea — 16 6 ts4B
50	42 8ea — 64 0 ts4B
100	80 8ea — 121 0 ts4B
vial 5 mils	4 4ea — 6 6 ts4B
P.K. (1223 TWC)	
chewing gum	40 pkts 7 7 11 3
Pleniron (895 TK)	
liquid 30 mils	
Delete Polybryne (2 Abbott) ampoules	
Polyblonde (721 LC)	.. 37 9 9 5 5 6
Polycolor (721 LC)	.. 29 3 7 3 4 3
Polyhairset (721 LC)	
clear ..	10 4 2 7 1 6
tinting ..	17 2 4 3 2 6
Polylock (721 LC)	.. 62 0 15 6 8 11
Polytint (721 LC)	.. 37 9 9 5 5 6
Polywavers (721 LC)	.. 31 0 7 9 4 6
Ponds (256 CPL)	
skin fresh ..	27 3 6 10 3 9
twin stick ..	21 3 5 4 2 11
Potensan (830 Medo)	
tablets forte ..	.. .. .. .. ts4B
Potter & Moore (994 P&M)	
Apple Blossom	
bath cubes ..	141 18 10 4 9 2 9
frosted fragrance ..	142 24 0 6 0 3 6
perfume ..	143 37 8 9 5 5 6
talcum powder ..	140 20 0 5 0 2 11
Blue Heaven	
bath cubes ..	141 18 10 4 9 2 9
frosted fragrance ..	142 24 0 6 0 3 6
perfume ..	143 37 8 9 5 5 6
talcum powder ..	140 20 0 5 0 2 11
Gold Brocade	
bath cubes ..	141 18 10 4 9 2 9
frosted fragrance ..	142 24 0 6 0 3 6
perfume ..	143 37 8 9 5 5 6
talcum powder ..	140 20 0 5 0 2 11
soap, toilet (golden fern, muguet, garenia, beauty)	
Spring Dawn	
bath cubes ..	141 18 10 4 9 2 9
frosted fragrance ..	142 24 0 6 0 3 6
perfume ..	143 37 8 9 5 5 6
talcum powder ..	140 20 0 5 0 2 11
talcum powder (golden fern, muguet, garenia)	
Delete Potters (992 P&C)	
190	
191	
pastilles	
antiseptic throat ..	13 0 3 3 2 0
cherry cough ..	13 0 3 3 2 0
glycerine and blackcurrant ..	13 0 1 11 1 11
glycerine, honey and lemon ..	13 0 1 11 1 11
glycerine of thymol ..	13 0 3 3 2 0
Pour Monsieur (247 Chanel)	
eau de cologne 1613 .. 4 oz	.. .. .. 27 6
Delete Premier (1229 T&C)	
Pretexte (730 Lanvin)	
toilet water ..	.. 4 oz 38 0
8 oz 58 0	
Primobolan (973 Pharmaceuticals)	
tablets 5 mgm .. 20	96 0 24 0 14 0 ts4B
100	30 6ea 7 7 1ea53 4 1 ts4B
500	128 0ca 32 0ea224 0 ts4B
Primobolan Depot Citole (973 Pharmaceuticals)	
disposable pack 100 mgm 1	11 4ea 2 10ea 19 10
3	31 0ea 7 9ea 54 3
Prinsan (1006 PI)	
household disinfectant 8 oz	11 9 — 1 6
16 oz	17 9 — 2 0
Prom (1242 Toni)	
roller perm complete ..	67 0 16 9 9 6
regular ..	38 10 9 8 5 6
Psoriderm (1454 Dermal)	
cream ..	8 oz 7 6ea 1 10 1ea —
Pulvogen (502 Genatosan)	
26 0	6 6 3 10
Pycamisan (1154 S&N)	
cachets PH20 ..	.. 100
Pycazine (1154 S&N)	
tablets 100 mgm .. 1000	
Quick (1273 VG)	
perfume spray ..	20 0ea 4 0ea 36 0
Delete Quinphos (1229 T&C) all packs	
Delete Rabro (790 Maowill)	
Insert Rabro (1091 Rybar)	
Radian (1023 Radiol)	
massage cream ..	2 lb
-B ..	32 oz
Refagan (452 FBA)	
tablets ..	.. 100 204 0 51 0 29 3 ts7
Delete Regula (980 Photopia) existing centres	
Insert Regula (980 Photopia)	
cameras	
L.K.B. ..	.. R24 286 8ea 69 9ea499 9
case ..	.. R51 34 2ea 8 3ea 59 6
Olymatic I ..	.. R53 344 0ea 83 11ea599 11
III ..	.. R59 458 10ea 111 8ea779 11
case ..	.. R51 34 2ea 8 3ea 59 6
Sprint ..	.. R56 114 6ea 28 0ea199 9
Sprinty ..	.. R28 91 8ea 22 3ea159 9
Sprinty B ..	.. R26 160 6ea 39 0ea279 9
Sprintic ..	.. R57 183 4ea 44 9ea319 9
Sprintomatic ..	.. R25 240 8ea 58 9ea419 9
case ..	.. R58 31 6ea 7 10ea 55 1
flashgun PF1 in case ..	R32 18 6ea 4 6ea 32 3
electronic varlant S ..	R29 163 8ea 39 11ea285 5
viewer with bulb ..	R27 84 0ea — 126 0
Delete Regulette (980 Photopia) existing entries	
Insert Regulette (980 Photopia)	
camera Prontor 125 ..	R52 126 0ea 30 9ea219 9
250S ..	R44 16 4ea 39 3ea279 9
case ..	.. R58 31 6ea 7 10ea 55 1
Insert Resochin (452 FBA)	
tablets ..	.. 1000 123 4ea — 185 0
Revlon (1052 Revlon)	
"blush on" with brush ..	342 9 85 8 42 0
sun bath tanning spray ..	99 6 24 10 14 6
Ribena (103 BF)	
blackcurrant pastilles ..	2 doz 34 3 5 11 2 0
..	3 doz
Rinoxin (506 Gerhardt)	
concentrate ..	.. 4 oz 52 0 — 6 6
1 lb	148 0 — 18 6
7 lb	73 4ea — 210 0
14 lb	140 0ea — 400 0
28 lb	266 8ca — 785 0
56 lb	523 4ea — 1500 0
112 lb	1000 0ea — 1500 0
readimix ..	.. 1 lb 40 0 — 5 0
3 lb	88 0 — 11 0
7 lb	176 0 — 22 0
14 lb	25 4ea — 38 0
28 lb	48 0ea — 72 0
56 lb	90 0ea — 135 0
112 lb	166 8ea — 250 0
Rolac (1462 Rolac)	
hair drying helmet ..	915/6 139 6
floor stand ..	.. .. .. 39 0
razor ..	.. 705 139 6
Rose's (1082 RKO)	
dietetic lime juice ..	26 oz 32 0 4 10 3 9
orange squash ..	26 oz 29 6 4 5 3 6
lemon squash ..	26 oz 29 6 4 5 3 6
grapefruit squash ..	26 oz 29 6 4 5 3 6
lime juice ..	26 oz 32 0 4 10 3 9
1-bott	18 3 2 9 2 2
lemon squash ..	26 oz 29 6 4 5 3 6
lemon barley ..	26 oz 29 6 4 5 3 6
non-alcoholic ..	
ginger cordial ..	26 oz 26 9 4 0 3 2
peppermint ..	26 oz 26 9 4 0 3 2
blackcurrant ..	
flavoured ..	26 oz 26 9 4 0 3 2
orange squash ..	26 oz 29 6 4 5 3 6
1-bott	16 10 2 6 2 0
Rovamycin (971 PSMB)	
bacto-sensitivity disks ..	
Royal (738 Lawson)	
flask ..	R540 23 8ea 2 4 1ea 37 11
R900 ..	26 0ea 2 2 7ea 42 0
Royal Sweden (1412 Jackel)	
hair brushes ..	
Radial polythene ..	562
Styling polythene ..	0614
bristle mixture ..	1986 96 0 .. 24 0 13 11
Rumeur (730 Lanvin)	
toilet water ..	.. 4 oz 38 0
8 oz	58 0
Rybar (1091 Rybar)	
dandruff lotion ..	4 1/2 oz 30 6 7 9 4 6
greyhound tonic ..	8 oz 30 6 7 9 4 6
inhaler special ..	.. 180 0 — 23 0
8aga (365 Demuth)	
(distributors 327 WC)	
perfume ..	.. 2 cc 24 0 6 0 3 6
2 dr	46 3 11 7 6 9
Sal Antisepticus (491 GB)	
.. 2 oz	
Saluric (837 MSD)	
tablets 0.5 gm ..	100 32 0ea — 48 0 ts4B
500 ..	155 0ca — 232 6 ts4B
Satin (1141 Simpkin)	
razor blades ..	.. 5 21 4 5 4 2 0
	(20 pkts) (20 pkts)
Scandal (730 Lanvin)	
toilet water ..	.. 4 oz 38 0
8 oz	58 0
Schick (1054 R&A)	
blades stainless double ..	
edge ..	.. 3 17 4 4 4 2 6
Sebbix (502 Genatosan)	
toilet soap ..	.. 10 0 2 6 1 3
Senpolin (1154 S&N)	
liniment ..	.. 24 0 6 0 3 6
Delete Serogon (179 BDH) ampoules	
Delete Setacreme (431 Eugene)	

Sevana (436 Evans) soap-free washing tablet	21	0	5	3	2	11	oral suspension 1.5 gm	7	9ea	—	11	7½	TS				
Seven Seas (176 BCLO) cod liver oil	..	..	6	oz	27	0	paediatric drops 1 gm	5	3ca	—	7	10½	TS				
Insert mint flavour	..	..	6	oz	—	—	syrup 125 mgm/5 mils	60	mills	7	9ea	—	11	7½	TS		
Sigmatycin (969 Pfizer) capsules 250 mgm	..	16	23	2ea	—	34	9	TS	25	..	7	9ea	—	11	7½	TS	
100	139	4ea	—	—	290	0	100 mgm	100	..	28	10ea	—	43	3	TS		
1000	1348	0ea	—	—	2022	0	100 mgm	25	..	15	3ea	—	22	10½	TS		
syrup	60	mils	8	8ea	—	13	0	TS	100	..	57	5ea	—	86	1½	TS	
Sil-kini (786 Macdonald)	..	..	67	6	6	9	250 mgm	16	..	20	8ea	—	31	0	TS		
briefs	..	..	67	6	6	9	100	124	..	2ea	—	186	3	TS			
pads	..	..	14	6	—	—	1000	1199	..	2ea	—	1798	9	TS			
towels	..	..	10	19	0	—	soluble 50 mgm	25	..	8	4ea	—	12	8	TS		
Delete Singleton's (1189 SG)	182	..	..	..	—	21	topical ointment	1½	oz	3	3ea	—	4	10½	TS		
Insert Singleton's (474 Fordham)	..	..	12	0	3	0	1 oz	5	..	5	9ea	—	8	7½	TS		
8kin Dew (596 HR)	..	..	10	19	0	—	200 gm	37	..	3ea	—	55	10½	TS			
..	..	..	10	19	0	—	topical powder 3%	1 oz	..	6	5ca	—	9	7½	TS		
Sofos (121 Bibby) fabric softener	21	9	—	—	—	—	troches 15 mgm	24	..	3	0ea	—	4	6	TS		
Soft Echo (654 Innoxa) cream powder rouge	50	0	12	6	7	6	vaginal tablets 100 mgm	10	..	8	2ea	—	12	3	TS		
Solution 41 (654 Innoxa)	51	0	12	9	7	9	S.F. capsules	16	..	21	5ea	—	32	1½	TS		
Insert Sombrero (665 JS)	..	..	51	7	12	7	100	128	..	11ea	—	193	4½	TS			
aerosol spray	..	..	22	4	5	5	1000	1245	..	0ea	—	1867	6	TS			
crème tube	..	..	24	1	5	10	with polymyxin B	..	..	..	..	—	1	7½	TS		
suntan oil	..	..	24	1	5	10	ophthalmic ointment	1 oz	..	1	1ea	—	5	3	TS		
Insert Songo (1268 Vandre)	..	..	18	3	4	7	otic solution	..	..	3	6ea	—	5	3	TS		
travel sickness remedy	..	..	54	0	13	6	Tetracyn (969 Pfizer)	capsules 50 mgm	100	..	25	10ea	—	38	9	TS	
voyage	..	..	11	7ea	2	11ea	250 mgm	16	..	18	6ea	—	27	9	TS		
Spray Magic (876 MP)	..	..	37	8	9	500 mgm	100	..	110	10ea	—	166	3	TS			
aerosol	..	..	100	110	10ea	—	1000	1069	..	8ea	—	1604	6	TS			
Delete Spruce (431 Eugene)	..	..	500	534	10ea	—	Intramuscular injection	100 mgm	..	vial	3	4ea	—	5	0	TS	
8teclin (1176 Squibb)	..	..	1000	1069	8ea	—	Intravenous injection	250 mgm	..	vial	6	2ea	—	9	3	TS	
..	..	..	1000	1069	8ea	—	500 mgm	..	..	vial	11	0ca	—	16	6	TS	
Delete tablets 250 mgm	..	..	16	18	6ea	—	paediatric drops 1 gm	..	..	..	4	8ea	—	7	0	TS	
..	..	..	100	110	10ca	—	syrup ..	..	..	2 oz	6	10ea	—	10	3	TS	
..	..	..	500	534	10ea	—	16	..	..	49	8ea	—	74	6	TS		
..	..	..	1000	1069	8ea	—	tablets 50 mgm	..	100	..	25	10ea	—	38	9	TS	
Delete Steelin V (1176 Squibb) all sizes	..	..	16	18	6ea	—	100 mgm	..	100	..	51	2ea	—	76	9	TS	
Steradent (1037 Reckitt)	..	..	26	21	3	5	250 mgm	..	16	..	18	6ea	—	27	9	TS	
tablets ..	..	..	17	15	0	7	1000	1069	..	8ea	—	1604	6	TS			
..	..	..	26	21	3	24	1000	1069	..	8ea	—	1604	6	TS			
Sterogyl-15 (1087 Roussel)	..	..	3	72	0	—	Tetracyn-P (969 Pfizer)	capsules ..	..	16	..	18	6ea	—	27	9	TS
oral ..	..	..	26	21	3	9	..	..	100	..	110	10ea	—	166	3	TS	
Delete Stilbocstrol (179 BDH)	..	..	3	72	0	—	1000	1069	..	8ea	—	1604	6	TS			
ointment ..	..	..	1lb	—	—	..	Tetracyn-8 F. (969 Pfizer)	capsules ..	..	16	..	19	2ea	—	28	9	TS
Stings (PP Ltd)	..	..	20	0	5	0	..	..	100	..	115	0ea	—	172	6	TS	
sting cream ..	..	..	100	110	10ca	—	1000	1110	..	5ea	—	1665	7½	TS			
Stitz (637 Hunter)	..	..	142	0	—	..	Theogardenal (971 PSMB)	tablets ..	..	100	..	54	0	—	6	9½	4A
electronic flashgun ..	..	..	—	—	—	..	..	500	..	18	10ea	—	28	3½	4A		
Insert Suba-Seal (479 WF)	..	..	5B4	8	2	10	Delete Therapas (1154 S&N)	cachets 1.0 gm	..	..	..	..	..	..	..	..	..
baby beaker ..	..	..	1C37	12	6	—	Delete Therazid (1154 S&N)	cachets ..	..	..	..	..	..	..	..	..	..
soothers all rubber ..	..	..	1C36	5	0	—	Delete Thermona (1154 S&N)	cream ..	..	..	..	..	..	..	..	..	..
mini with plastic ring ..	..	..	1C38	14	0	—	Thram (506 Gerhardt)	..	..	..	..	..	..	..	..	..	..
..	..	..	5A3	10	0	—	Thyroprem (61 APC)	..	..	..	..	..	..	..	..	..	..
..	..	..	1C52	38	0	—	Ting (563 Hampshire)	..	..	..	..	..	..	..	..	..	..
Supenpin V (34 A&H)	..	..	100	37	6ea	—	Toledo (654 Innoxa)	..	..	..	..	..	..	..	..	..	..
tablets ..	..	..	100	37	6ea	—	skin perfume ..	..	..	..	..	..	..	..	..	..	..
Delete Sulphadiazine (746 Lederle) tablets	..	..	23	10	3	7	atomiser ..	..	..	..	..	..	..	..	..	..	..
Suncrush (1082 RKO)	..	..	23	10	3	2	..	..	..	..	..	..	..	..	..	..	..
squashes ..	..	..	23	10	3	7	Insert Tranquilex (248 Charnwood)	tablets ..	..	40	..	48	0	—	5	9	4B
Sunfresh (1082 RKO)	..	..	23	10	3	2	Transol (1154 S&N)	..	..	..	..	..	..	..	..	..	..
squashes ..	..	..	23	10	3	9	..	..	..	..	..	..	..	..	..	..	..
Super Plenamins (248 Charnwood)	..	..	60	142	0	—	..	..	..	..	..	..	..	..	..	..	..
chewable ..	..	..	30	132	0	—	..	..	..	..	..	..	..	..	..	..	..
Supersoft (503 Hampshire)	..	..	30	132	0	—	..	..	..	..	..	..	..	..	..	..	..
hair spray perfumed ..	..	..	33	4	8	3	..	..	..	..	..	..	..	..	..	..	..
Delete Sustenoid (1229 T&C)	..	..	33	4	8	3	..	..	..	..	..	..	..	..	..	..	..
Swiss Nail (1372 CCL)	..	..	82	0	20	0	..	..	..	..	..	..	..	..	..	..	..
nail hardener ..	..	..	30	132	0	—	..	..	..	..	..	..	..	..	..	..	..
Synandone (649 ICI)	..	..	30	132	0	—	..	..	..	..	..	..	..	..	..	..	..
cream ..	..	..	30	132	0	—	..	..	..	..	..	..	..	..	..	..	..
ointment ..	..	..	30	132	0	—	..	..	..	..	..	..	..	..	..	..	..
8yneriac (346 Dales) tin	..	..	35	gm	12	4ea	..	..	..	..	..	..	..	..	..	..	..
Tame (1242 Toni)	..	..	5	10½	1	5½	..	..	..	..	..	..	..	..	..	..	..
creme rinse sachet ..	..	..	5	10½	1	5½	..	..	..	..	..	..	..	..	..	..	..
Tampovagan (221 Camden)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
choleval 1%	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
fructose 20 mgm ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
sodium borate 10%	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tan-Kem (1212 Tan-Kem)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
syrup ..	..	..	10	oz	20	0	..	..	..	..	..	..	..	..	..	..	..
Tattoo (451 F&J)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
brush-on mascara ..	..	..	30	10	7	8½	..	..	..	..	..	..	..	..	..	..	..
Tee-Up (438 ER)	..	..	41	0	10	0	..	..	..	..	..	..	..	..	..	..	..
pre-shave lotion ..	..	..	120	mils	31	6ea	..	..	..	..	..	..	..	..	..	..	..
Terra-Bron (969 Pfizer)	..	..	16	20	8ea	—	..	..	..	..	..	..	..	..	..	..	..
..	..	..	100	124	2ea	—	..	..	..	..	..	..	..	..	..	..	..
..	..	..	1000	1199	2ea	—	..	..	..	..	..	..	..	..	..	..	..
intramuscular injection ..	..	..	100	mgm	..	..	..	..	..	..	..	..	..	..	..	..	..
100 mgm ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
intravenous injection ..	..	..	250	mgm	..	..	..	..	..	..	..	..	..	..	..	..	..
500 mgm ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
nasal solution ..	..	..	5	mls	3	4ea	..	..	..	..	..	..	..	..	..	..	..
ophthalmic solution ..	..	..	25	mgm	..	..	..	..	..	..	..	..	..	..	..	..	..
Terramycin (969 Pfizer)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
capsules 250 mgm	..	..	16	20	8ea	—	..	..	..	..	..	..	..	..	..	..	..
..	..	..	100</														

Vitavel (1285 Vitamins)								
syrup	100 mils	21 0	—	2 7½				
Vivies (147 Boots)								
heparin 25000 lu/mil ..	1	84 0	—	10 6				
Volidan (179 BDH)								
tablets ..	20	80 0	—	10 0	†s4B			
Volpar (179 BDH)								
gels ..	12	32 0	—	4 0	†			
paste ..	60 gm	32 0	—	4 0	†			
tablets foaming ..	12	32 0	—	4 0	†			
Delete paste and applicator								
Vulfix (1012 PSB)								
shaving brushes								
Saisoon								
plastic base, nylon bound								
No. 629 ..	52 6	13 1	7 9					
No. 630 ..	65 0	16 3	9 6					
No. 631 ..	75 0	18 9	11 0					
solid pure bristle, nylon tied								
No. 803 ..	85 0	21 8	12 6					
pure badger								
No. 2197 ..	17 0ea	4 3ea	30 0					
No. 2198 ..	22 8ea	5 8ea	40 0					
No. 2199 ..	28 4ea	7 1ea	50 0					
Watameter (980 Photopia)								
Insert rangefinder 11 ..	W2	39 10ea	9 9ea	69 6				
super ..	W3	42 8ea	10 6ea	74 6				
Waymaster (999 PEC)								
personal scale ..	720	37 2ea	3 8ea	59 5				
Weston (1099 SW)								
exposure meter								
Master V ..								
White Lies (365 Demuth)								
(distributors 327 WC)								
perfume ..	2 cc	24 0	6 0	3 6				
2 dr	46 3	11 7	6 9					
Wolitz (1372 CCL)								
base coat ..	23 0	5 8	3 6					
top coat ..	23 0	5 8	3 6					
eye liner liquid ..	36 6	8 11	5 6					
eye shadow baton ..	43 3	10 7	6 6					
lipstick standard ..	23 0	5 8	3 6					
luxury ..	36 6	8 11	5 6					
Splendid Eyes ..	43 3	10 7	6 6					
thinner ..	16 9	4 1	2 6					
Woodwards (1346 Woodward)								
baby powder ..	14 4	3 7	2 0					
shampoo ..	17 10	4 5½	2 6					
nursery cream ..	17 10	4 5½	2 6					
teething jelly ..	17 10	4 5½	2 6					
Zoff (1155 S&N)								
plaster remover ..	20 oz	63 6	—	7 5				
Zynocin (378 Dista)								
lozenges ..	12	20 0	—	2 6	†s7			

ADDITIONS TO KEY TO SUPPLIERS:

- (174 BA)=BRITISH ALKALOIDS, LTD., Pinners Hall, Austin Friars, London Wall, E.C.2. London Wall 3711.
- (287 Collo)=COLLO (ENGLAND), LTD., 14 Crespigny Road, London, N.W.4. Hendon 7979.
- (474 Fordham)=FORDHAM LABORATORIES, 210 Lambeth Road, London, S.E.1. Waterloo 6706.
- (614 Hoechst)=HOECHST PHARMACEUTICALS, LTD., Portland House, Stag Place, London, S.W.1.
- (623 Hormo)=HORMO-PHARMA, LTD., 7 Cleveland Row, London, S.W.1. Whitehall 0562.
- (629 HL)=HOWARD LLOYD & CO., LTD., Berger House, 36 Berkeley Square, London, W.1. Grosvenor 6801.
- (738 Lawson)=LAWSON & CO. (MERCHANTS), LTD., Cranmer House, Cranmer Road, London, S.W.9. Reliance 8471.
- (769 Lloyd Hamol)=LLOYD-HAMOL, LTD., Berger House, 36 Berkeley Square, London, W.1. Grosvenor 6801.
- (770 LP)=LLOYD'S PHARMACEUTICALS, LTD., Berger House, 36 Berkeley Square, London, W.1. Grosvenor 6801.
- (798 MR)=MARCEL ROCHAS (ENGLAND), LTD., 19 Grosvenor Street, London, W.1. Hyde Park 6511.
- (869 Muir)=MARJORIE MUIR OF LONDON, LTD., 1a Carlton Hill, London, N.W.8. Primrose 9979.
- (937 Parisek)=PARISEK, LTD., Greencoat House, Francis Street, London, S.W.1. Tate Gallery 9212.
- (945 Payot)=PAYOT, LTD., 1 Grafton Street, London, W.1.
- (986 Playtex)=PLAYTEX LTD., Port Glasgow, Renfrews.
- (1034 R&P)=RAYNER & PENNYCOOK LTD., Rayvit House, Govett Avenue, Shropshire, Middlesex. Walton-on-Thames 27237.
- (1054 R&A)=RICHARDS & APPLEBY, LTD., York House, Westminster Bridge Road, London, S.E.1. Waterloo 4679.
- (1201 Supervitc)=SUPERVITE MANUFACTURING CO., LTD., 107 Great Eastern Street, London, E.C.2. Clerkenwell 0827.
- (1202 Surface)=SURFACE PROTECTION, LTD., Talbot Works, Stanstead Abbotts, Ware, Herts. Stanstead Abbotts 174.
- (1208 Syn)=SYNCHEMICALS, LTD., 234 Borough High Street, London, S.E.1. Hop. 2918.
- (1262 UL)=UNIVERSAL LABORATORIES, LTD., Sandwich, Kent. Sandwich 2371.
- (1268 Vandre)=VANDRE, LTD., 220 West Regent Street, Glasgow, C.2. City 5334.
- (1273 VG)=V. G. TRADING & FINANCE CO., LTD., 12 Fulwood Place, London, W.C.1. Chancery 8986.
- (1425 Fulder)=M. FULDER & CO., LTD., 41 Trinity Square, London, E.C.3. Royal 1326.
- (1453 Norcil)=NORCIL PHARMACEUTICALS, LTD., 81 Upper Clapton Road, London, E.5. Upper Clapton 7073.
- (1454 Dermal)=DERMAL LABORATORIES, LTD., 99 Baker Street, London, W.1. Welbeck 3936.
- (1455 W&Co)=G. O. WOODWARD & CO., LTD., 45 Morrell Road, London, S.W.2.
- (1457 PP Ltd)=PHARMACEUTICAL PRODUCTS, LTD., 44 Magdalen Street, Norwich 95A, Norfolk. Norwich 28053.
- (1458 MLL)=MEESON LABORATORIES, LTD., 149 Sunbridge Road, Bradford, 1, Yorkshire. Bradford 22220.

(1459 Polyglaze)=POLYGLAZE, LTD., Victoria Road, Burgess Hill, Sussex. Burgess Hill 3259.								
(1460 Dome)=DOME, DIVISION OF MILES LABORATORIES, LTD., Stoke Court, Stoke Poges, Slough, Bucks. Farnham Common 1280.								
(1462 Rolac)=ROLAC (GREAT BRITAIN), LTD., 113 Princess Street, Manchester, 1.								
(1463 C194)=C194 PRODUCTS, LTD., 46 Hertford Street, London, W.1. Mayfair 3732.								
(1466 Nichol)=NICHOL BEAUTY PRODUCTS, LTD., Old Farm Avenue, Southgate, London, N.14. Foxlane 0181.								

THIS WEEK'S CHANGES

NEW and altered entries notified for the first time

A = Advanced. R = Reduced.

Entries new this week are marked thus : — ●

A 4 Way (172 BMCL)								
cold tablets ..	..	12	21 5	5 1	3 0			
24		40 10	9 8½	5 9				
● Actomol (649 ICI)								
capsules 5 mgm ..	..	25	60 0	15 0	8 9	†s4B		
100		216 0	54 0	31 6	†s4B			
500		82 6ea	20 7½ea	144 4½	4½	†s4B		
A Altoids (1152 SK)								
..	..	14 2	3	6½	2 0			
A Angier (172 BMCL)								
emulsion ..	..	31 2	7 5	4 1				
52 10		12 6½	6 6	1 10				
junior aspirin tablets ..	..	50 12 11	3 1					
500		72 0						
junior jel ..	..	20 0	4 9	2 11				
A Anseps (1152 SK)								
..	..	17 6	4 4½	2 6				
Insert Anthisan (971 PSMB)								
elixir ..	..	125 mils	28 0		3 6	†s7		
1 litre		152 0			19 0	†s7		
Delete 4 oz and 40 oz								
● Aquasan (1467 RRL)								
lavatory disinfectant ..	..	85 6			9 6			
Insert Ashes of Gardenia (150 Bourjois)								
bath cubes (6) ..	..	9293 16 4	4 1	2 6				
perfume ..	..	9291 22 10	5 8½	3 6				
soap, toilet ..	..	9295 46 8	11 8	6½				
(talcum ..	..	9292 12 0	3 0	1 10				
● Astric (74 Astric)								
"dry-bed" ..	..	94 6ea			126 0			
spare pads ..	..	15 9ea			21 0			
● Biogastrone (117 BPL)								
tablets ..	..	24 20 0ea	5 0ea	35 0				
100		75 0ea	18 9ea	131 3				
Bufferin (172 BMCL)								
..	..	28 10	6 10	3 11				
Insert								
● Color & Style (597 HCL)								
Cussons (338 Cussons)								
Imperial Leather								
soap bath giant ..	..	17 0	4 1½	2 6				
Delete								
Desert Flower (1131 Shulton)								
hand and body lotion								
plastic bottle ..	..	1814 50 6	12 4	7 9				
● Endocil (917 Organon)								
jar ..	..	10 7ea	2 8ea	18 6				
Delete Evening in Paris (150 Bourjois)								
A Geeps (1152 SK) ..	..	17 6	4 4½	2 6	†			
Insert junior ..	..	17 6	4 4½	2 6	†			
Goya (532 Goya)								
colour spray ..	..	68 9	17 2	10 0				
head dress ..	..	29 2	7 3½	4 3				
Hartnell (1376 Hartnell)								
rouge cream ..	..	22 0	5 6	3 3				
A Ingram (172 BMCL)								
shaving lather cream ..	..	20 8	4 11	3 0				
economy size ..	..	30 7	7 3	4 3				
brushless ..	..	21 3	5 0½	3 0				
In Love (1376 Hartnell)								
hand lotion ..	..	HL33 41 0	10 3	6 0				
perfume ..	..	HL1 44 6	11 1½	6 6				
A Ipana (172 BMCL)								
toothpaste ..	..	11 8	2 9	1 8				
19 2		4 7	2 9	2 9				
Isovac (1040 Rees)								
vacuum flask ..	..	..	..	..	7 10			
● Gold Seal								
16 oz ..	..	116 ..	..	..	..
Kent (693 Kent) brushes								
Insert complexion ..	..	BC2 8 11ea	2 1½ea	15 6				
A								
BC3 8 11ea		2 1½ea	15 6					
A								
nail "Long Grip" ..	..	NP18 18 Sea	4 6ea	32 6				
Insert								
shaving								
black handle ..	..	C23 31 6ea	7 8ea	55 0				
50/50 badger and bristle C19 18 8ea		4 6ea	32 6					
C21 21 6ea		5 3ea	37 6					
100% real bristle ..	..	C20 8 11ea	2 1½ea</td					

<i>Insert</i>	Largactil (971 PSMB) syrup ..	125 mils 2 litres	54 0 65 0ea	—	6 9 97 6	†s4B †s4B	face powder ..	.3451	11 5	2 10	1 9	
<i>Delete</i>	4 oz and 40 oz						hair cream ..	.3237	26 0	6 6	4 0	
<i>Corr.</i>	Milical (451 F&J) slimming biscuits ..		59 0 (1½ doz)	—			hair spray ..	.3232	48 8	12 2	7 6	
	A Mum (172 BMCL) cream ..		5 10 14 1 20 4	1 5 3 4 4 10	2 0 3 0 3 0		parfum de toilette ..	.3322	61 8	15 5	9 6	
	deodorant stick ..		19 6	4 8	2 9		perfume ..	.3411	35 8	8 11	5 6	
	for men ..		35 2	5 4	5 0		3412	61 8	15 5	9 6		
	refill ..		29 3	6 11	4 1		rouge compact ..	.3283	22 10	5 8½	3 6	
	lotion ..		22 6	5 4	3 3		soap, toilet (3) ..	.3345	33 0	8 3	4 9	
	perfumed rollette ..		34 9	8 3	4 9		talcum ..	.3356	24 4	6 1	3 9	
<i>Insert</i>	Mum-Mist body spray ..		25 0	5 11	3 6							
			42 8	10 1½	6 0							
<i>Insert</i>	A Neo-Hydriol (971 PSMB) ampoules ..	10 mils	78 0	—	9 9		Stemetil (971 PSMB) syrup ..	125 mils	62 0	—	7 9 †s4B	
<i>Delete</i>		15 mils	106 0	—	13 3			4 oz				
	viscous ..	10 mils	64 0	—	8 0		<i>Insert</i>	forte ..	125 mils	152 0	—	19 0 †s4B
		20 mils	106 0	—	13 3		<i>Delete</i>	4 oz & 40 oz	1 litre	90 6ea	—	136 0 †s4B
	Nivaquine (971 PSMB) syrup ..	125 mils	108 0	—	13 6		Sulphatriad (971 PSMB) suspension ..	125 mils	48 0	—	6 0 †s4B	
<i>Delete</i>		4 oz						1 litre	28 6ea	—	42 9 †s4B	
	Old Cottage (544 Grossmith) bath crystals ..	92	48 0	12 0	7 0		A Supavite (172 BMCL) capsules ..	21	50 0	—	5 9	
<i>Insert</i>	soap, bath (3) ..	70½ B	68 6	17 1½	10 0			42	91 4	—	10 6	
<i>Delete</i>	Old Spice (1131 Shulton) after shave lotion ..							84	163 0	—	18 9	
●	travel pack ..	3719	50 6	12 4	7 9		● Tenax (1140 Simmonds) tube	50 0	12 6	7 6		
●	travel pack ..	371PM					Thalazole (971 PSMB) suspension ..	125 mils	48 0	—	6 0 †s4B	
●	spray deodorant ..	3230	37 6	9 2	5 9			1 litre	28 6ea	—	42 9 †s4B	
<i>Delete</i>	Orstrax (920 Orstrax) existing sizes						Valledrine (971 PSMB) linctus ..	125 mils	40 0	—	5 0 †s4B	
<i>Insert</i>	Orstrax (920 Orstrax) tablets ..	..	42 43 2	—	5 0			2 litres	46 6ea	—	70 0 †s4B
		84	73 5	—	8 6		Delete	4 oz & 40 oz				
		156	116 8	—	13 6		Vallergan (971 PSMB) syrup ..	125 mils	50 0	—	6 3 †s4B	
	Phenergan (971 PSMB) elixir ..	125 mils	28 0	—	3 6			4 oz				
<i>Delete</i>		2 litres	31 2ea	—	46 9		<i>Insert</i>	forte ..	125 mils	102 0	—	12 9 †s4B
		4 oz & 40 oz			†s7		<i>Delete</i>	4 oz				
<i>Insert</i>	Phensedyl (971 PSMB) linctus ..	125 mils	36 0	—	4 6		A Vitalis (172 BMCL) .. 4 oz	41 1	9 9	5 9		
<i>Delete</i>		2 litres	40 0ea	—	60 0				11 0	6 6		
		4 oz & 40 oz			†s7	● Whispering Mist (1326 Whisper) White Fire (544 Grossmith)	44 0					
	Sa-fir (244 C&SL) smog mask with six spare pads ..	.. 6	1 10½ea	—	—						
	pads only ..	25	6½ea	—	—							
		2 2ea	—									
<i>R</i>	Schweppes (1109 Schweppes) fruit squashes ..	25 oz	30 4	4 6	3 7		● bath crystals ..	609	48 0	12 0	7 0	
<i>A</i>	Smith Kendon (1152 SK) pastilles catarrh ..	17 6	4 4½	2 6			A bouquet ..	603	32 6	8 1½	4 9	
●	Soir de Paris (150 Bourjois) bath cubes (6) ..	3335	19 6	4 10½	3 0		A hand lotion ..	612	30 6	7 7½	4 6	
	beauty cream ..	3464	22 10	5 8½	3 6		A perfume ..	600	30 6	7 7½	4 6	
	brillantine liquid ..	3334	26 0	6 6	4 0		A talcum ..	608	34 0	8 6	5 0	
	solid ..	3239	26 0	6 6	4 0							
	Cologne ..	3519	35 8	8 11	5 6							
		3518	61 8	15 5	9 6							

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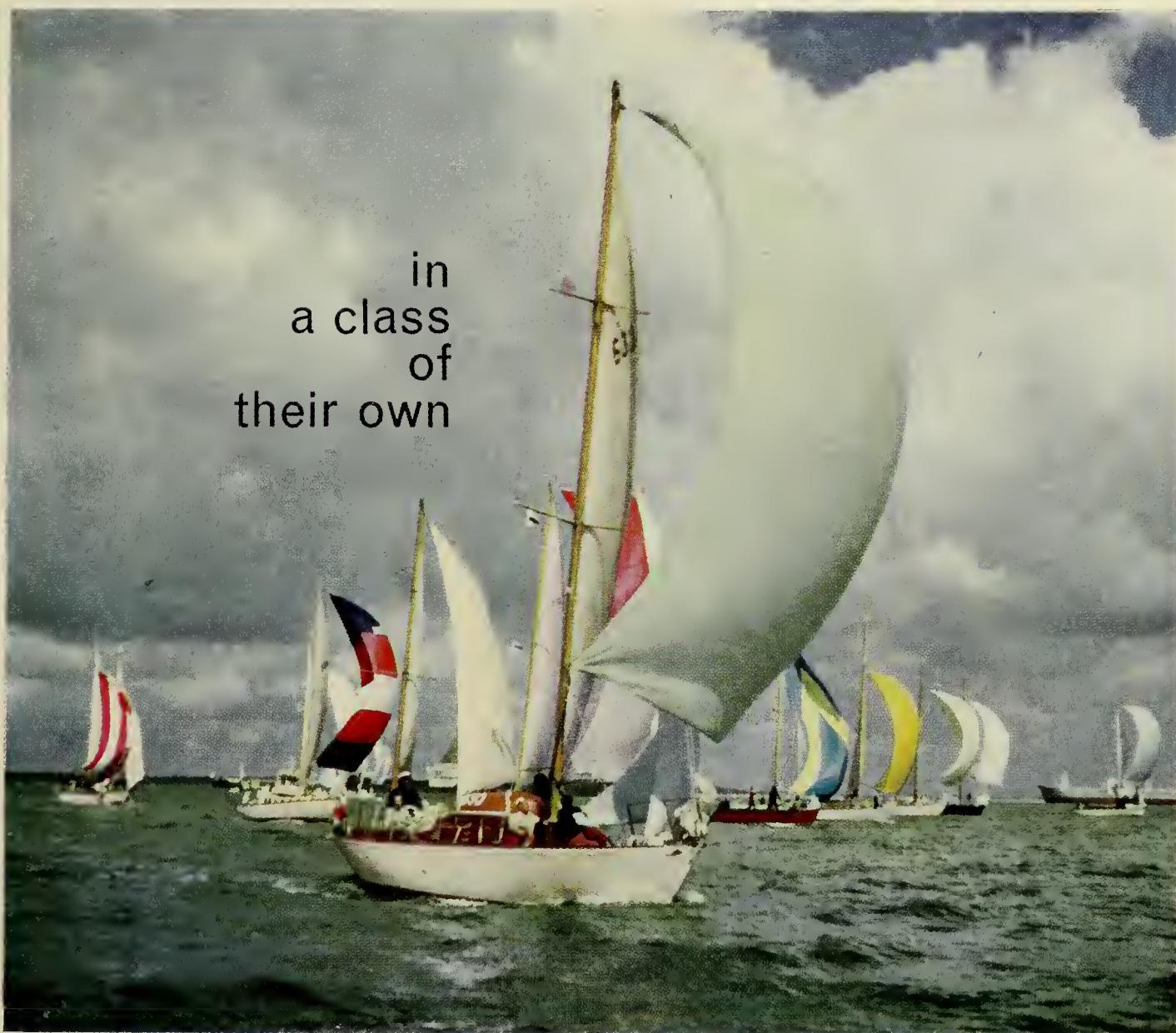
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Progress in Medical Research

ELEVEN items in the Report of the Medical Research Council 1961-62 (H.M. Stationery Office, price 16s. 6d.) illustrate the wide range of subjects—from molecular biology to clinical medicine—that receive support from the Council. The articles also delineate current research work and point, albeit with appropriate caution, to its possible outcome.

Two articles, "The Genetic Code" and "Chemical Mutagens," deal with questions of genetic inheritance. "The Genetic Code" describes the discovery of a cryptographic system essential to life, and the DNA story, much of the work on which, carried out at the Council's Laboratory of Molecular Biology in Cambridge, became widely known to the public as the result of the recent award of Nobel prizes to members of the staff of the laboratory. The process of mutation is being studied by the Council's Mutagenesis Research Unit at the Institute of Animal Genetics, Edinburgh, where studies are being carried out on the mode of action of chemical mutagens, especially into factors that may cause a mutagen to produce specific mutation.

It has been known for many years that, when bacteria are infected with viruses, their inherited characteristics may be changed. Viruses are, in fact, one of the most efficient vehicles for introducing foreign "genetic-like" material into a cell. It was thought for many years that unknown viruses might change the behaviour of human cells, making their reproduction go astray, so that tumours are produced instead of orderly, normal growth. Tumours have been produced in mice, hamsters, rabbits and fowls infected with certain viruses found only in animals, but no proof has been obtained of a similar process in man. Now, however, certain viruses, the adenoviruses types 12 and 18, that occur naturally in man and in the monkey without apparent ill-effects, have been found to produce tumours in hamsters. There is thus, for the first time, some evidence that human beings are naturally infected with viruses capable, in some circumstances at least, of causing cancer. Those viruses all contain DNA, and appear to transform the genetic material of the hamster cells.

In another article reviewing cancer in the tropics, mention is made of a type of tumour (a lymphoma) affecting the jaw and other organs of African children. It appears to be climatically determined, for the tumour occurs only at lower altitudes, and is associated with

high temperatures and humidity and certain types of vegetation. It may well be that the tumour is of virus origin and dependent on an insect vector living in certain climatic conditions.

Perhaps one of the most perplexing research topics aided by the Council is the research on multiple or disseminated sclerosis, which is the commonest structural disease of the nervous system in Great Britain. Although it has been familiar to physicians for more than a century, there is still uncertainty as to whether multiple sclerosis is an infection, an allergic disorder, or a disturbance of metabolism. Its incidence is virtually confined to temperate climates, and it increases in an astonishingly exact manner as one goes north from the Equator to latitude 50° North.

Numerous controlled clinical trials of various remedies have been carried out without success, though recent work by members of the Council's Demyelinating Diseases Research Group at King's College, Newcastle-on-Tyne, on the treatment of acute exacerbations of the disease, suggests that recovery may be hastened by a short intensive course of corticotrophin.

After an article on the "Endocrine Glands and the Central Nervous System," there is one on "Medical Retardation and Chemical Abnormalities" that refers to a number of metabolic faults that appear to be specifically associated with mental retardation. A great deal of research, some of it supported by the Council by means of research grants, has been concerned with those problems during the past decade, and the Council has set up a research unit at King's College, London, to work on problems of human biochemical genetics.

Other subjects discussed in the report include "The Metabolism of Plasma Protein" and "The Biosynthesis of Sterols and Biological Engineering." The last section is concerned with prostheses, or artificial limbs, a field in which considerable progress is being made.

It is evident that, for its relatively modest expenditure of £6½ millions during the period under review, and lesser amounts during previous years, the Medical Research Council is pursuing a successful course that is likely in due time to solve many contemporary medical problems.

MEDICAL ABSTRACTS

CHLORAMPHENICOL IN CYSTIC FIBROSIS

To determine the effects of prolonged administration of chloramphenicol, Lloyd, Grimes, Khaw and Shwachman (*J. Amer. med. Ass.*, 184, 13, 1001) selected fifty children suffering from cystic fibrosis, each of whom had received chloramphenicol for total periods exceeding three years, for special haematological investigation. The dosage given had varied from 15 to 100 mgm. per kilo of body weight a day. In addition to blood tests, the bone marrow of twelve of the patients was examined. Routine blood counts were performed for all the children, as were measurements of serum iron and iron-binding capacity and serial reticulocyte counts. No evidence of toxicity was found. The appearance of the bone marrow of the twelve patients was consistent with the infection, with no indication of haemopoietic depression. The authors also reviewed the *post-mortem* findings on twenty-three patients who had been treated with chloramphenicol for periods up to six years. Again no evidence of marrow aplasia was found. The authors conclude that "when necessary, chloramphenicol may be given in large doses over long periods of time without toxic effect. The prolonged administration of chloramphenicol is justified by the beneficial effect obtained in patients with extensive pulmonary involvement caused by cystic fibrosis." However, the importance of keeping all recipients of chloramphenicol under careful surveillance is stressed.

NEW FILMS

Constipation: Physiology and Treatment

WESTMINSTER LABORATORIES, LTD., Chalcot Road, London, N.W.1. 16 mm. Colour. Sound. Running time: 25 minutes.

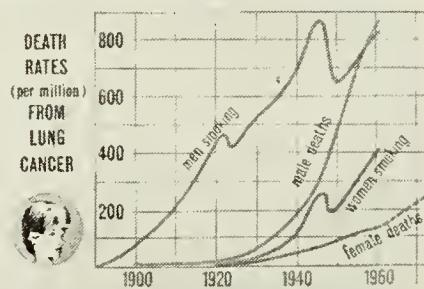
PREPARED, under the general direction of Dr. F. Avery Jones, by the Royal Society of Medicine film unit, this film summarises the physiology of the gastro-intestinal tract and the causes and types of constipation. It shows the classes of purgative drugs and their limitations when used in the treatment of constipation, placing particular emphasis on the anthracene group and the advantages of standardised senna preparations.

This Is Your Lung

VERITY FILMS, LTD., for the sponsors, *Allen & Hanburys, Ltd.*, Bethnal Green, London, E.2. 16-mm. Technicolor/sound (limited number of 35-mm. technicolor/sound also available). Running time: 16 minutes.

WRITTEN and directed by Oswald Skilbeck, the film highlights the perils associated with cigarette smoking. Produced in consultation with Drs. Horace Joules, C. Fletcher, O.B.E., and R. Döll, O.B.E., it is based largely on the report "Smoking and Health," of the Royal College of Physicians. The Institute of Diseases of the Chest co-operated by enabling clinical scenes to be photographed

at Brompton Hospital, and further clinical sequences were taken in the Chester Beatty Research Institute. The film was designed to provide general practitioners, chest specialists and medical officers of health with a film they could show



to the lay public. It summarises at a "popular science" level, current medical opinion and evidence, driving home its message both to adults and to adolescents. By the use of animated drawings, moving graphs and charts, it illustrates the stages of bronchial deterioration and explains the extent of the problem. The story of the film tells of a barely middle-aged father, with a cough, who visits his local doctor, is referred for x-ray, then for biopsy, and finally for radiotherapy. Degeneration is rapid, its outcome a foregone conclusion. The intention of the producers is that the film shall be widely shown to doctors before going on general release. Copies of the 16-mm. version become available after September 1, from the company's film library (department A).

NEW BOOKS

A Pharmacopœia for Chiropodists

J. N. LE ROSSIGNOL, F.C.H.S. and C. B. HOLLIDAY, M.P.S., *Faber & Faber, Ltd.*, 24 Russell Square, London, W.C.1. 8½ x 5½ in. Pp. xv + 207. Seventh edition. 30s.

THIS new edition of a work intended for students and practitioners of chiropody incorporates the drug developments that have taken place since the last edition in 1955. Drugs going out of use have been relegated to part IV, where only brief characteristics are given. Other sections are included on surgical dressings, prescription writing and therapeutics.

Phenylbutazone

H. K. VON RECHENBERG and others. *Edward Arnold (Publishers), Ltd.*, 41 Maddox Street, London, W.1. 9½ x 6 in. Pp. x + 197. 30s.

THE biochemistry, pharmacology and chemistry of phenylbutazone is here treated by experts in those respective fields. Each of the collaborators has made substantial contributions to knowledge of the compound. Special attention has been paid to the recognition and evaluation of side-effects. Other chapters deal with dosage and presentation, combination with other drugs, and comparison of the therapeutic side-effects of phenylbutazone with those of other anti-rheumatic agents. The book has been well translated from the second, revised, German edition.

HOSPITAL PHARMACY FORUM

SALARIES AND VACANT PLACES

SALARIES are again to the fore. Will the day ever come when they are not? Week after week new salary scales are published for this and that hospital officer, and all of them appear to be away and above what the average hospital pharmacist can expect to obtain. Comparing the standards of education, length of training, content of work, responsibility, it would seem that more is paid for less. There are even scales where the possession of G.C.E. passes at "O" level and "A" level entitle an officer to additional increments. Pharmacists must have at least two "A" level passes to enter the profession, then study for three years full time, and then undergo one-year post-graduate training before becoming registered. Is there any wonder, seeing the small reward for such training, that hospital pharmacists are sometimes in despair. Most stay in hospital because of conviction and the way of life—hospital service is a way of life, and public service never was a sinecure, for all Gilbert made play of it. Without those dedicated people, much of the hospital service would disappear. It is to the Government's shame that such valiant service should be so poorly rewarded. No man in business would accept such rewards for comparable services.

The work load on the hospitals keeps increasing and increasing, and the pharmaceutical service must meet the demands of this ever-expanding service. With the concentration of medical effort in District General Hospitals, services will also concentrate in the centre. It is an obvious economy to do so. In these days of individual transport, getting to a hospital centre should present no difficulties. It is hoped that all the planners will realise that, with expand-

ing hospitals, increased demands, and concentration in the centre, pharmaceutical departments and staffs must be favourably placed to meet the increased load. That will mean more money. Once the optimum work load is reached, only more of everything will allow of increase. It would seem that our planners and authorities continually expect a quart from a pint pot. They should come and try it!

No Rush of Graduates

Schools of pharmacy are closing for the long vacation. A rush of pharmacists to the hospital service has not been seen, and there is a variety of jobs in a number of places all ready and waiting for applicants. Need one ask why? Has money anything to do with the situation? The answers are obvious to those who care to look. Hospital service at £725 hardly compares with other employment at £1,350 plus house, with garage, rent and rates free! Supply and demand seems to be the battle cry of certain sections of the community—but not in the public service! What is good for the goose is *not* good, it seems, for the gander!

There has been an increased demand by pharmaceutical students for work during the long vacation. Enlightened boards do make provision for the employment of students during this time, and such employment is to the benefit of students and staffs, and maybe helps someone to decide that public service is worth being out of pocket to serve. Hospital pharmacists are not alone in believing that students ought to spend some time in a hospital department. There they will, at least, gain some idea of pharmacy as a profession!

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

A Company's Veterinary Policy

SIR.—We feel that Mr. Hall (*C. & D.*, July 20, p. 64) has misread our policy statement. We will be pleased to supply our restricted veterinary products to retail pharmacists who are prepared to help us to keep their use within professional control.

W. A. KINNEAR, *Director, EVANS MEDICAL, LTD., Speke, Liverpool, 24*

SIR.—Pharmacists engaged in rural practice should recognise the move by Evans Medical Ltd. (see *C. & D.*, July 13, p. 35) in putting sales of their sheep biologicals into the hands of veterinary surgeons as being a business move to woo the trade of that profession rather than a step dictated by ethics. The move, is in fact, contrary to the recommendations of the joint committee of the British Veterinary Association and the Pharmaceutical Society, which examined the matter a few years ago. I urge pharmacists to show their dissent by withdrawing support wherever possible for Glaxo Group products and for the wholesaling activities of their subsidiaries.

T. A. STOCKILL, M.P.S., Hull, Yorks

SIR.—It is with great regret that I feel obliged to join the ranks of the grumblers who fill so many columns of your correspondence pages. I was extremely disturbed to read in your issue of July 16 that Evans Medical, Ltd., have seen fit to restrict the supply of many of their veterinary products to the veterinary surgeon. This is a severe blow for many of us in rural areas, who believe we are offering a service to the farmer by well informed distribution of veterinary pharmaceuticals. All of us would agree that some veterinary preparations must be restricted, but the list of products which Messrs. Evans quote is ridiculously wide. I hope that all pharmacists directly involved will write to Messrs. Evans expressing their strong disagreement with the new policy.

CHRISTOPHER M. WRAGG, Hathersage, Sheffield

Rural Pharmacists' Problems

SIR.—It is indeed pleasing to note that Xrayser had drawn such attention to the problems of the rural dispensing pharmacist. In more and more places it is evident that there is a definite increase in the number of doctors or groups of doctors commencing their own dispensing (in fact, it is increasing in suburban areas as well). Are these the symptoms of a well conceived general plan on the part of the medical profession to have a *fait accompli* to strengthen their bargaining position in future negotiations with the National Health Service (one calls to mind "bulk dispensing"), or to "muscle in," on the legitimate territory of the pharmacist? Remember, there are no "test" scripts nor any

dispensing under "qualified supervision." The problem is one which Rural Areas Pharmaceutical Committee must watch with vigilance. At the moment I am collecting information and evidence on this problem and I would be grateful to your readers if they would forward knowledge of any case in their area.

MERVYN MADGE,
Plymouth

Economics of "Pure" Pharmacy

SIR.—The special Summer Issue dated June 29 is most interesting and instructive, not the least part being the article "Pharmaceutical Techniques Used in Austria and Central Europe." Can Mr. Rawski-Conroy complete this by some details or figures for the financial economics of these businesses run on pure pharmacy today? This would be very interesting and helpful to many pharmacists in Great Britain.

A. G. FENNELL,
Bournemouth

Drugs in a Hairdresser's Window

SIR.—In these days of intense competition to retail pharmacists from supermarkets, etc., it has often gratified me to know that there still remain a few firms who adhere to a "chemists only" policy. It was, therefore, with considerable misgivings that, on casually looking into the window of a hairdressing salon quite near to my home, I was able to see, on open display, the items I have always regarded as being exclusive to chemists. Could it be that the support of these firms for the pharmacist is not as good as they would have us believe? Or is it a fault with the manner of distribution of the products? I hasten to point out that the case I report is *not* an isolated one because I have seen these items (or some of them) in other non-registered premises.

H. STURGEES-MILLS, M.P.S.,
Manchester

[The names of the products were supplied but we have refrained from publishing them because, having been in touch with two of the manufacturers concerned—and probably others would give similar replies—we are satisfied that neither has countenanced the supply of the products to a non-pharmacist and both are taking steps to trace and prevent the leakage—EDITOR.]

On General Release

SIR.—The gullibility of pharmacists amazes me more than ever! For many years they sponsored Sebbix shampoos as a "chemists only" line. When the product was well established the makers released it to all and sundry, and what was the chemists' reaction? Not a bleep! Messrs. Genatosan's latest list, received this morning, indicates that there is no longer to be a controlled price for the product—only a "suggested" retail price, so that, no doubt, having first established the shampoo for the benefit

of the grocers, etc., we shall now have the ignominy of seeing it in the supermarkets and cut-price stores. Yet, swallowing the bait of a few paltry pounds in prize money, many pharmacists are prepared to prostitute their profession by giving this manufacturer window space. Wake up, you general practitioners of pharmacy!

EX CAMERA PRINCIPIS

A Cut in Margins

SIR.—This week we have received a new price list from a well known firm, of American origin, that markets nail polishes, deodorants, etc. A covering letter points out that "orders now qualify for increasingly advantageous terms." We wonder how many retailers have noticed that in fact, although the retail prices remain as they are, the standard (wholesale) prices and, of course, the purchase tax have been increased, resulting in a drastic cut in profit margin on wholesale buying? To obtain the profit margin formerly available from a wholesaler it is now necessary to order ten cases direct. We hope other retailers will protest to this firm as we have done. As well as protest we have removed all products concerned from visible display.

JOHN S. MILLS,
J. BUSBY, LTD., *Chemists,*
Harpden, Herts

Applications Unacknowledged

SIR.—Through your columns may I ask those employers who advertise vacancies to answer all such applicants, if only by means of a printed note disclosing or not their identities? To be left in suspense is both frustrating and cruel, especially if one remembers that there is a human being behind each written application. Named companies as well as box numbers are often guilty in this respect. One man I know of mid-forty, university-educated in the sciences and in commerce, was a successful manager till his company was the victim of a "take-over." He is a member of several professional bodies to aid British technological developments and commercial enterprise. He has written literally hundreds of letters for appointments. Some have been answered politely "... we have selected a candidate whose qualifications suit more closely our requirements." This he accepts, but he would not have applied if he thought he was too wide of the mark. Others bluntly state "... your qualifications are not high enough." This too he accepts, as he cannot be expert in *everything*. The third reply, not uncommon, is "... your qualifications exceed our requirements." This brings no audible comment. The greatest number of applications have not been acknowledged, despite the fact that he considers many of the appointments had "tailor-made specifications." Does the clue lie in his age? Perhaps the age of forty is not now a life-line but a death-line—in which case this country must be the

poorer by thousands of men like him; men who still can offer valuable experience for yet over quarter of a century. Unemployment is always a serious personal problem—for the over-forty professional worker it is a haunting spectre.

QUAESTOR

Pills in Petrol Mixtures

SIR,—Contrary to the remarks of Mr. McDonnell, Belfast (*C. & D.*, July 6, p. 11), my inquiry for information about the use of steel and pennyroyal pills in methanol/petrol mixtures (*C. & D.*, June 22, p. 686) was a perfectly serious question and *not* a leg-pull. I have made further inquiries and find that the customer has been using the mixture on small engines (model boats, etc.) in the proportion of six pills, 4 oz. methanol to one pint of petrol with quite astonishing results. He is now experimenting with a car engine. Now, please, a serious answer to a serious question—can any reader give an explanation?

ELIZABETH M. YONGE,
Harrow

Reward Offered

SIR,—As a service to our customers and yours, the shopkeepers who read your journal, we feel that perhaps you may wish to draw their attention to the increasing numbers of itinerant blindmakers, known as "bodgers" in the trade, who are representing themselves as agents of this or other well known companies and charging exorbitant prices for minor repairs. A recent example is of a trader in Richmond who was charged £28 for a job that at most was worth £3 10s. That is far from being an isolated or extreme instance. We feel that, to obviate the possibility of more traders being treated in this way, something should be done to demonstrate to the "bodgers" the error of their ways, and to this end we are prepared to offer a reward of £100 for information leading to the prosecution of any unauthorised person using the name of this company.

A. SHARP,
DEANS BLINDS (PUTNEY) LTD.,
Deodar Road, London, S.W.15

"Must Pharmacy be a Profession?"

SIR,—Mr. Eric Neal, for all his show of hard-headed common sense, has strayed from the path of reason in his address reported in the *C. & D.* (July 6, p. 17). Mr. Neal's line of argument seems to be that, since trading is a paying concern and professional pharmacy is not, let the pharmacist become a trader. He claims (and I would not question his statement) that no retail pharmacist can ever make a living by dispensing medicines and supplying surgical goods. *Ergo*, let him lay in a stock of cheap jewellery, ball-point pens, paperback who-dun-its and ironmongery, and give them the lion's share of his display space. Now, if a man wants to be a trader, let him trade. There is nothing to stop his entering that honest, albeit cut-throat, fraternity which Napoleon pronounced the backbone of *Perfidious Albion*. But that he should be a pharmacist into the bargain is a *non sequitur*.

In trying to be both without any clear rules regarding the distribution of his two rôles, our trader-pharmacist is claiming the benefits of two pursuits while he shrugs off the more onerous duties of one of them. That may be good in law; it is not good in equity. Let the born trader stick to his till (an emblem, by the way, that does not figure in the Society's Grant of Arms) and relinquish his membership of a body which evidently expects stiffer standards than those of price-wars. On his own arguments, our trader does not find his membership a paying proposition. Why, then, does he cling to it? Can it be that it carries prestige—another asset which critics of the professional approach deride? Now for the other side. Pharmacy is a profession because it carries the burden of a corpus of specialised knowledge and training and takes responsibility for its proper application within the social order. The pharmacist who sells drugs, dispenses medicines or, for that matter, supplies toilet and cosmetic articles, does not merely as a trader but as an expert, vested with a degree of statutory authority. His customer should more accurately be described as a client, whose welfare is paramount. Sales from a pharmacy are made critically, not automatically; both the goods and the consumer must be assessed. The refusal to sell on occasion, or the recommendation of something else for a consumer whose judgment is at fault, are essential functions of a

pharmacist. It may be true, as Mr. Neal says, that the public care not whether the establishment be run on professional lines; but only until professional negligence has caused bodily harm or anxiety to a customer or his relatives. Like every other profession, pharmacy has an ideal in trust, to which its members must remain loyal even though it cramp their style. There remains the problem of making a pharmacy pay its way. In opposition to Mr. Neal's thesis, I would suggest making it more, and not less, professional. The pharmacist's role as adviser to the public and to the medical practitioners with whom he comes into contact is still in its infancy. By making himself, and keeping himself, the expert on drugs and dressings which, by definition, he is, the pharmacist will find himself in a trusted position in the community, which will not fail to support him financially, Minister or no Minister. And drugs can, without loss of professional face, be extended to embrace cosmetics and photography. But to concentrate his energies upon faster, greater and injudicious sales merely to swell his turnover will prove to be the pharmacist's *facilis descensus Averni*.

PETER COOPER,
Hindhead, Surrey

Appreciated

HAVE used the *C. & D.* for many years in my business activities and always appreciated the information given.

—L.M.

P.A.T.A. COUNCIL

Quarterly meeting

THE quarterly meeting of council of the Proprietary Articles Trade Association was held on July 11, the president (Mr. L. D. Smith) occupying the chair.

THE SECRETARY (Mr. H. E. Chapman) reported that, during the quarter, 365 calls had been made on traders reported as price cutters of manufacturer-members' goods, and a large number of test purchases had been made. In response to letters sent to retail traders on behalf, and at the request, of manufacturer members whose goods had been the subject of price cutting, many promises of adjustment had been received. Certain manufacturer members of the P.A.T.A. were reported to be in course of instituting injunction proceedings against traders who had not observed resale price conditions.

The council approved arrangements made by the executive in connection with publicity and Parliamentary matters, and noted that, in reply to questions from Members of Parliament on the Government's policy on resale price maintenance and the result of the Board of Trade inquiry into the subject, Mr. F. J. Erroll (President of the Board of Trade) had stated on July 2 that, as the issue affected "millions of consumers and hundreds of thousands of retailers and distributors" and was a complex and controversial matter, it was better that he should take time in making up his mind.

The council received and approved a report on the activities of the Resale Price Maintenance Co-ordinating Com-

mittee since its inception, and authorised payment of the full annual subscription.

Membership Conditions

At the request of the executive committee, the manufacturers, wholesale and retail sections of council had considered the present rules and conventions governing admission to, and membership of, the manufacturers section. Each section had submitted its views and recommendations to the Council. After discussion of the suggestions made (which were approved in principle by the council) it was agreed that the secretary should prepare a statement and submit it to the executive for formal approval at its next meeting. Matters relating to membership of the wholesale section, and to affiliated wholesale membership, were remitted to the next council meeting for further consideration.

Members endorsed felicitations sent by the president to Mr. C. W. Mapleshorpe on his election as president of the Pharmaceutical Society and to Mr. J. C. Bloomfield on his election as vice-president.

It was agreed to hold the next meetings of the sections and Council on October 10.

At a luncheon that preceded the meeting, Mr. J. S. Gwatkin (McKenna & Co., solicitors to the Association) was guest of the president and council. Mr. Gwatkin spoke on matters connected with the provisions of the Restrictive Trade Practices Act as they affected the Association's activities.

Anti-depressives and Tranquillisers

SURVEY BY A GLASGOW PHARMACOLOGIST

AN address on "Anti-depressives and Tranquillisers" by MR. J. J. LEWIS (senior lecturer in experimental pharmacology, University of Glasgow) was given at an evening meeting of the Scottish Department of the Pharmaceutical Society, held in Edinburgh earlier in the year, Mr. W. C. Bain in the chair.

A Changed Approach

Until recently, said Mr. Lewis, treatment of mental illness had been by physical methods or the use of drugs in non-specific fashion (for example insulin and metrazol to cause convulsions; central-nervous-system depressants to sedate or produce long periods of sleep). Such methods were used simultaneously with psychotherapy and occupational therapy.

The specific application of drugs to the treatment of abnormal mental states was fairly recent, its origins being in the rediscovery of the sedative and tranquillising properties of *Rauwolfia serpentina*. A little later the tranquillising properties of chlorpromazine had been discovered and applied, and there had followed rapidly a large number of tranquillisers of varying activity. They fell into a small number of classes.

The phenothiazine derivatives included a number of drugs not used as tranquillizers. (the antihistamines, promethazine and pyrolazote; the anti-Parkinsonism drugs diethazine and ethopropazine). Drugs in the group possessed qualitatively similar activities, but compounds with a heterocyclic structure as part of the N-substituent might be more effective in certain forms of catatonic schizophrenia. The phenothiazines as a whole were behavioural depressants.

Indole alkaloids, a smaller group, included reserpine and related compounds (rescinnamine, deserpidine). Certain benzoquinolizine derivatives (for example: tetrabenazine) might also be included as a sub-group. Drugs in the group were also behavioural depressants, their actions superficially similar to those of the phenothiazines, their therapeutic applications similar but not identical.

Benzhydryl derivatives included tranquillisers (hydroxyzine, azacyclonol, captodiame); antidepressives (orphenadrine, benactyzine, pipradrol); antihistamines (cyclizine, chlorcyclizine, diphenhydramine); atropinic drugs (adiphenine) and motion-sickness remedies (clozine, dimenhydrinate). Sedative and antidepressive activity in diphenhydramine and orphenadrine were represented by the difference of only one *O*-methyl group.

Substituted propane-diols blocked spinal interneurones and were therefore centrally-acting muscle relaxants. Some possessed sedative activity chlordiazepoxide, a newer drug, did not fall chemically into any of the above groups. The phenothiazine tranquillisers *Rauwolfia* alkaloids and benzoquinolizines might be regarded as major tranquillisers or antipsychotic drugs, the benzhydryl derivatives, substituted diols

and chlordiazepoxide as minor tranquillisers.

Two main classes of behavioural stimulants were used in psychiatric medicine: the antidepressives and the psychotomimetics, the latter group having only a limited use. Antidepressives, used to treat endogenous depression, had also been employed to treat some forms of apathetic schizophrenia, apparently with but scant success. The compounds used included hydrazine derivatives (phenelzine, pheniprazine); orphenadrine (a benzhydryl derivative) and imipramine and amitriptyline, not unrelated to the phenothiazines. They could be grouped into monoamine oxidase-inhibiting hydrazine derivatives; compounds derived from 8-phenylethylamine (with pharmacological properties rather similar to those of amphetamine, also inhibiting monoamine oxidase), and compounds that did not inhibit monoamine oxidase, or only weakly (orphenadrine, imipramine, amitriptyline).

Psychotomimetics were compounds that caused changes in the mental state superficially resembling some forms of psychosis. Most were derivatives of indole (lysergic acid diethylamide, bufotenine, psilocybine, ibogaine); others were chemically related to adrenaline (mescaline).

Theories of Method of Action

Discussing the mode of action of the drugs, Mr. Lewis said much was known of drugs that acted at peripheral sites and many attempts had been made to describe the action of C.N.S. drugs in terms of an effect upon the processes of chemical transmission (synthesis, storage, release, breakdown or physiological functions). Certain chemical substances had been selected for study as possible chemical transmitters in the central nervous system. Acetylcholine and noradrenaline were undoubtedly transmitter substances at peripheral sites. A number of others could be shown to have central and peripheral actions when applied pharmacologically, but none had been established to act as peripheral chemical transmitter substances. Acetylcholine was present in brain, and cholinesterase (which degraded it), and the choline acetylase system (which synthesised it), had also been demonstrated there. Some pharmacological observations strengthened the view that acetylcholine acted as a transmitter: increased dosage could convert the arousal pattern into one characteristic of a convulsive episode in *grand mal* epilepsy. Similar effects followed the administration of anticholinesterases such as esterine, DFP or TEPP. Deanol (2-dimethylaminoethanol), thought to be a precursor of acetylcholine produced a behavioural alertness.

Anticholinergic drugs might exert marked effects upon the central nervous system. Poisoning with atropine was associated with hallucinations and delirium, and with increased motor activity; intracerebroventricular injection of acetylcholine or anticholinesterases gave

rise to a state of catatonia. Both symptoms were seen in schizophrenia, but it would not be safe to draw any close parallels. At therapeutic dose levels hyoscine caused drowsiness, amnesia and sedation; overdosage was associated with hallucinations and in elderly patients the drug could cause excitement. There was, therefore, evidence that atropine-like and psychotomimetic activities were related; indeed a number of psychotomimetics were atropine-like anticholinergic drugs. Some clinically useful antidepressives also possessed atropine-like activity (orphenadrine, benactyzine, imipramine).

It might be expected that the tranquillisers would show acetylcholine-like activity or be anticholinesterase, but in fact the anti-depressives imipramine and amitriptyline were moderately potent anticholinesterases and, in that respect, appeared more potent than chlorpromazine. The action of tranquillizers, antidepressives and psychotomimetics could not yet be explained in terms of an effect upon cholinergic transmission in the brain.

Noradrenaline and 5-hydroxytryptamine were found in the mammalian brain, the largest amounts in the hypothalamus; lower, but still relatively large, quantities elsewhere. The distribution of histamine was somewhat similar. Dopamine, the precursor of noradrenaline, was present in brain, mostly in the caudate nucleus, putamen and substantia nigra, regions relatively less rich in noradrenaline. It was thus possible that dopamine and noradrenaline had different functions in brain.

"Behavioural Alerting"

Noradrenaline and adrenaline-like compounds were well known to cause behavioural alerting, and it seemed possible that cells in the reticular formation and posterior hypothalamus were sensitive to the adrenergic transmitters. Several substances with chemical and pharmacological similarities to noradrenaline also influenced the electrical activity of the brain-stem reticular formation. They included (+)-amphetamine; dopa (precursor of adrenaline and noradrenaline) and pyrogallol (which inhibited catechol-o-methyltransferase). Reserpine and some reserpine-like tranquillisers depleted the brain of its noradrenaline, and in some cases it had been possible to show parallels between depletion and recovery of noradrenaline levels and the course of sedation and tranquillisation. There were, on the other hand, tranquillisers that appeared not to cause depletion of brain noradrenaline.

5-Hydroxytryptamine, the enzyme that synthesised it from 5-hydroxytryptophan (5-hydroxytryptophan decarboxylase), and monoamine oxidase, which broke it down, were all present in brain. Injection of 5-hydroxytryptophan into dogs caused disturbances which were much increased if a monoamine oxidase inhibitor were given at the same time. Injections of 5-hydroxytryptamine itself were not effective, because the

drug did not cross the blood brain barrier. Administration of 5-hydroxytryptophan, which raised brain levels of 5-hydroxytryptamine, was associated with tremor and convulsions, not with alertness. The same thing happened after the use of reserpine, which depleted the brain of both noradrenaline and 5-hydroxytryptamine. On the other hand administration of the potent monoamine oxidase inhibitor nialamide raised both brain noradrenaline and 5-hydroxytryptamine levels and caused behavioural alertness. Nialamide, given to mice after reserpine, only raised brain 5-hydroxytryptamine and did not cause alerting. Those effects appeared to show that 5-hydroxytryptamine was not involved in behavioural alerting, but that noradrenaline might be.

Tranquillising doses of reserpine were associated with depletion of brain 5-hydroxytryptamine and brain noradrenaline, and the suggestion had been made that the alkaloid inactivated sites that bound the amines. 5-Hydroxytryptamine, it had been suggested, continued to be synthesised and metabolised, but could not be stored, so that the brain was continuously exposed to a low concentration of it. The pharmacological actions of reserpine could thus be due to 5-hydroxytryptamine rather than to the drug itself. The parallel presence of the two substances had led to the suggestion that each acted as a transmitter at functionally antagonistic centres in the brain—5-hydroxytryptamine at central parasympathetic sites and noradrenaline at central sympathetic sites. Those regions would normally each exert a measure of tonic activity, which was increased, one way or another, according to the needs of the animal and the effects of an excess of the trophotrophic transmitter would thus be similar to those of a deficiency of the ergotrophic one.

Possible Synergies

It was conceivable that the indole derivatives acted as synergists or as antimetabolites of 5-hydroxytryptamine. If noradrenaline were the ergotrophic transmitter, it might be possible to explain the actions of amphetamine and related drugs and the monoamine oxidase inhibitors in terms of increased central sympathetic activity. It was possible that amphetamine had both types of action, the former predominating.

A number of workers had suggested that schizophrenia itself was due to faulty indole metabolism. It had been shown that the highest levels of histamine in the brain were found in the hypothalamus and area postrema, and it was noteworthy that many antihistamines had sedative and tranquillising actions. The tranquillisers chlorpromazine, methtrimeprazine and hydroxyzine were all antihistamines, as was imipramine.

Aminobutyric acid was present in brain and might have a metabolic function, but it might also be a transmitter, modifying neuronal activity. The involvement of aminobutyric acid and other amino acids in the action of tranquillisers and antidepressives had not, however, been sufficiently investigated. It was not possible to be certain of the existence of chemical transmission in brain, except perhaps acetyl-

choline in some limited areas, and the foundations for ascribing a transmitter function to any other compounds were shaky.

Biochemical Considerations

Cellular metabolism, including that of nervous tissues, required a readily available source of energy. Most came from the oxidation of glucose, the rest from glycolysis. The oxidation and glycolytic breakdown of glucose were linked to the synthesis of adenosine triphosphate (ATP) from adenosine diphosphate (ADP) and inorganic phosphate (IP). That reaction yielded sufficient energy for such activities as transmitter synthesis, enzymic activities and the flux of ions across membranes. When tissue ATP levels were raised, and ADP levels fell, then there was either a net rise in energy production, or a net fall in energy utilisation. The converse was also true. Drugs which increased the synthesis of ATP might be regarded as bringing about an increase in the amount of energy potentially available for cellular activity. Drugs which reduced ATP synthesis might be expected to have opposite effects, and drugs which reduced ATP utilisation would do the same. Increased, drug-induced ATP utilisation could raise neuronal activity and that would then be expected to be influenced by changes in energy metabolism in the brain.

A number of narcotics and other depressants such as the barbiturates had been shown to depress the respiration of brain tissue stimulated electrically or by means of potassium ions. Some barbiturates could be shown to depress oxidative phosphorylation but uncoupling, as reflected by a fall in the P/O ratio, was not a universal property of narcotics.

A second reaction, which probably acted as a reserve source of energy, was the breakdown of phosphocreatine (PC). During anaesthesia, brain PC levels rose, but ATP levels were unaltered or slightly raised. Stimulants had been less thoroughly investigated than depressants: amphetamine, ephedrine and some related drugs had little effect upon the respiration of brain slices, but oxygen uptake was depressed by $10^{-5}M$ imipramine and amitriptyline. On the other hand, caffeine increased oxygen uptake in rat brain cortex slices.

Phosphate Metabolism

It had been shown that methylamphetamine raised the ATP level of rabbit brain, and similar effects were found in rat brain after caffeine and mouse brain after ether. Other forms of excitement caused a fall in ATP levels, indicating increased utilisation of energy by the c.n.s. One would expect animals treated with stimulants to show a similar effect; in practice it seemed there was increased ATP synthesis. A large group of centrally acting drugs which caused behavioural stimulation in animals caused a rise in rat brain levels of ATP, a rise in the ATP/ADP ratio, and a fall in ADP. That effect was associated with increased behavioural alertness. The compounds tested included amphetamine, ephedrine and phenmetrazine; a group of monoamine

oxidase inhibitors including phenelzine, nialamide, trancyclycromine and compounds such as imipramine, amitriptyline, orphenadrine and benactyzine. More recently the speaker had shown similar effects to follow the use of a group of psychotomimetics including mescaline and bufotenine. Increased behavioural alertness in experimental animals was thus associated with raised brain levels of ATP, perhaps indicating an increased synthesis of that compound.

Tranquillisers appeared to act in an opposite manner. Sedation was associated with a fall in ATP and a rise in ADP and those effects had been observed with all tranquillisers so far tested. Meprobamate, even at doses that caused complete paralysis, had no effect upon adenine nucleotide levels or CP; chlordiazepoxide lowered ATP as would be expected, but at the same time had an effect upon CP, which was also lowered. None of the other tranquillisers shared that action upon CP, which might point to a somewhat different mechanism of action.

Effects upon ATP levels might be due to effects upon the activity of brain ATP-ases. Some barbiturates had been shown to stimulate ATP-ase activity and amphetamine and imipramine both inhibited its activity in homogenates of rat brain. Other stimulants tested so far were not active, but the possibility of effects upon ATP-ase activity must obviously be taken into account.

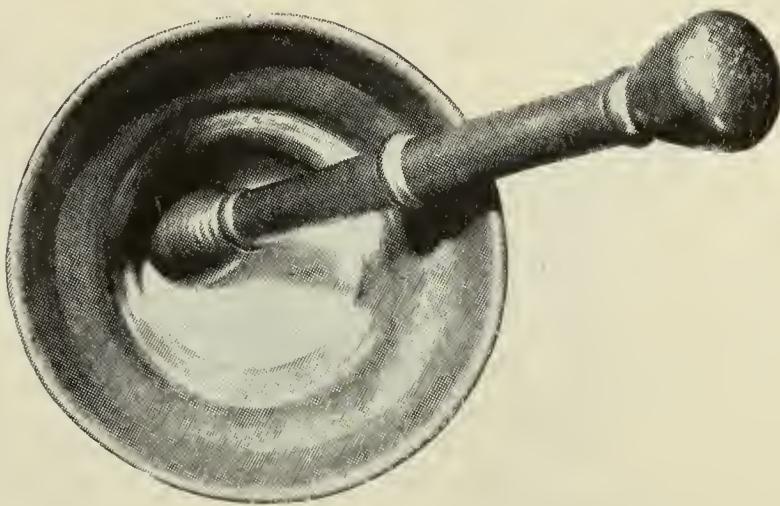
Little progress was likely to be made with the rational, systematic design and synthesis of new drugs for mental illness until basic neuronal mechanisms in the brain had been more fully worked out.

PACKAGING NOTES

Improved Cosmetic Jars.—A new range of standard polystyrene cream jars "with enhanced sales appeal plus more efficient sealing qualities" are now being marketed by Hyde Plastics, Ltd., 166 Piccadilly, London, W.1. Of double-walled construction, the jars



have a wide rim which is claimed to give additional strength and an improved sealing surface. The inside depth has been increased to remove the discrepancy often apparent between the depth of contents compared to that of the jar. Initially the 1 fl. oz. (30 mil) and 2 fl. oz. (60 mil) sizes are available but other sizes will be available shortly. Messrs. Hyde state that automatic fast-cycle production has kept prices low, and screen printing and hot die blocking facilities are available to manufacturers.



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TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JULY 24: The scarcity of GINGER at the main producing centres, particularly Jamaica, caused spot material to rise by a further 20s. to 25s. per cwt., as to source.

CARDAMOMS were unchanged, but considerable buying has been going on recently, with the threat of higher shipment rates becoming effective on September 1. Supplies of BUCHU have become depleted on the spot and at origin; the United States is believed to have been an active buyer in South Africa and offers are now difficult to obtain. The trend of SAFFRON prices continues upward, but spot values tend to vary more widely than usual, depending on holders' stocks. TRAGACANTH, which has been steady for many months, has begun to rise because of a reported poor crop in Persia.

Among ESSENTIAL OILS, BOIS DE ROSE was sixpence per lb. lower, while Formosan CITRONELLA slid back a further threepence. Some of the Spanish oils were dearer; SAGE was up one shilling per lb. and LAVANDIN up 1s. 6d. LAVENDER SPIKE was firm at 12s. 6d. per lb.

OLIVE OIL on the spot has dropped in anticipation of lower prices from Spain. Importers are expecting the Spanish Government to make a pronouncement that would have an effect of reducing the price from its present £360-£370 per metric ton, f.o.b., to £295-£315. But so far this is speculation.

PHARMACEUTICAL CHEMICALS were mostly unchanged, but IODIDES and other iodine-containing preparations are likely to advance, following a sharp increase in the rate of crude iodide, the basic price of which was increased to 18s. 7d. per kilo on 17s. 4d. NEOMYCIN was considerably lower.

Pharmaceutical Chemicals

ACETANILIDE.—Crystals, one-cwt. lots, 2s. 10d. per lb.; 5-cwt., 2s. 9d.

ANEURINE HYDROCHLORIDE.—One-kilo, 112s. 6d.; 10-kilos, 110s.

ASCORBIC ACID.—One-kilo, 40s. 6d.; 10-kilos, 37s. per kilo; 25-kilos, 35s. 6d.

BACITRACIN.—Sterile topical is 53s. per mega unit for 25 m.u.

CAFFEINE.—ANHYDROUS and MONOHYDRATE for 50-kilo lots and over, 28s. 1d. per kilo; CITRATE, 20s. 11d.

CALAMINE.—Five-cwt. lots, 1s. 10d. per lb.; 1-ton, 1s. 8½d.

CALCIFEROL.—B.P. from 2s. 10½d. per gm. for 1-kilo lots.

CALCIUM CARBONATE.—B.P. light precipitated powder, 1-ton lots, £35 per ton in free bags, ex works.

CALCIUM CHLORIDE.—B.P.C. fused, 11½d. per lb. in 1-cwt. lots.

CALCIUM GLUCONATE.—10s. 6d. to 12s. per lb., as to quantity.

CALCIUM PANTOTHENATE.—97s. 6d. per kilo.

CALCIUM PHOSPHATE.—B.P.C. is 1s. 5d. per lb. for 1-cwt. lots and 1s. 4d. for 5-cwt.

CANTHARIDIN.—Per oz. 222s. 6d. for 4-oz. lots.

CHALK.—Prepared powder B.P., £22 per ton for minimum 1-ton ex works.

CHLORAL HYDRATE.—One-cwt. lots 4s. 1d. per lb.

CHLOROFORM.—1-cwt. lots in winchesters, 3s. 4½d. per lb.; 56-lb., 3s. 6d. In drums, 3s. 2½d. and 3s. 4d. per lb. respectively.

CHRYSAROBIN.—Per kilo, 5-kilo lots, 150s.

CORTISONE.—One-kilo lots, ACETATE and HYDROCORTISONE ACETATE or ALCOHOL, 5s. 6d. per gm.

CREAM OF TARTAR.—Home trade:—One-ton lots, 241s. per cwt., 10-cwt., 242s.; 5-9-cwt., 243s.; 2-4-cwt., 244s.; 1-cwt., 245s. (If supplied in bags deduct 5s.)

CYANOCOBALAMIN.—Less than 25-gm. lots, 110s. per gm.; 100-gm., 105s. per gm.

DICOPHANE (DDT).—One-ton lots, 2s. 4½d. per lb.

DIHYDROXYACETONE.—50-kilo lots are 62s. per kilo.

ETHER.—Per lb. in winchesters: B.P. TECHNICAL, B.S.S., 5-cwt., 2s. 9d.; (4s. 4d. per litre). In drums the price is 2s. 1d. per lb. ANÆSTHETIC, B.P., 6-cwt., 3s. 11½d.; 10-cwt., 3s. 7½d.

FOLIC ACID.—B.P. and U.S.P., 1-kilo lots about £23 per kilo.

FORMALDEHYDE.—B.P. solutions, 5-drum lots, 710s. per ton in free drums, delivered.

GLUCOSE.—Medicinal, B.P., POWDER, 66s. 6d. per cwt., delivered in 1-ton lots, 1-4 cwt., 69s.; 56-lb. bags, 36s. LIQUID, basic price, 48s. 6d. cwt.

HYDROCYANIC ACID.—Dilute B.P.C., from 3s. 2d. to 4s. per litre, as to quantity; Scheels from 3s. 10d. to 4s. 9d.

IRON SALTS.—GLUCONATE, B.P.C., 4s. 9d. per lb. in 1-cwt. lots; SULPHATE, B.P., crystals, 1-cwt. 70s. per cwt.; 5-cwt., 65s. per cwt.; granular, 2s. 6d. per cwt. extra. PHOSPHATE, B.P.C., 28-lb., 4s. 5d. per lb.; 1-cwt., 4s. 2d. OXIDE RED PRECIPITATED, B.P.C., 1949, 1-cwt., 2s. 1d. per lb.: CARBONATE, SACCHARATED, B.P.C., 1949, 28-lb., 3s. 3d.; 1-cwt., 3s.—AMMONIUM SULPHATE, 1-cwt., 1s. 7d. per lb.; QUININE CITRATE, 2s. 4d. per oz. in 100-oz. tin.

LACTATES.—CALCIUM, B.P., 2s. 3d. per lb. in 5-cwt. lots and 2s. 4d. in 1-cwt. lots; CALCIUM SODIUM, 4s. 9d. and 4s. 10d.

MAGNESIUM CARBONATE.—Per cwt. LIGHT, 129s. or 121s. for 1-ton lots; HEAVY, 175s. for 1-cwt. lots; from 130s. to 135s. for 1-ton lots.

MAGNESIUM CHLORIDE.—One-cwt. kegs, 3s. 3d. per lb.

MAGNESIUM HYDROXIDE.—B.P.C., 1-cwt. lots, 3s. 11d. per lb.; 1-ton, 3s. 6d. per lb.

MAGNESIUM OXIDE, B.P.—LIGHT, 1-cwt. lots, 3s. 10d. per lb., 1-ton, 3s. 7d.; HEAVY, 5s. 10d. per lb.

MAGNESIUM PEROXIDE.—B.P.C. (15 per cent.), 3s. 11d. per lb. for 1-cwt. lots.

MAGNESIUM PHOSPHATE: DIHYDROGEN, 1-cwt. lots, 4s. per lb.; TRIBASIC, 4s. 5d. lb.

MAGNESIUM SULPHATE.—B.P. in minimum 1-ton lots from £20 to £21 per ton according to crystal and manufacturer. Exsiccated, £56 per ton.

MAGNESIUM TRISILICATE.—(Per lb.). In 28-lb. packages:—28-lb., 4s. 9½d.; 1-cwt. 3s. 10d.; 5-cwt., 3s. 7d.; 1-ton, 3s. 1d.

METHYL TESTOSTERONE.—Per kilo, £95.

NEOMYCIN.—SULPHATE, B.P., 740s. per kilo; 5-kilos, 700s. per kilo.

NICOTINAMIDE.—(Per kilo). One-kilo, 38s. 10 kilos, 36s.; 50 kilos, 34s. 6d.

NICOTINIC ACID.—One-kilo, 28s.; 50-kilos, 24s. per kilo.

NIKETHAMIDE.—Per kilo, 100s.

OESTRADIOL.—MONOBENZOATE, 16s. per gm.

PARACETAMOL.—Ten cwt. to 1-ton lots, 10s. 6d. per lb.

PENICILLIN.—SODIUM, POTASSIUM, or PROCAINE, 6d. per mega unit.

PHENAZONE.—Imported, 9s. 6d. per lb.

PHOSPHORIC ACIDS.—B.P. (s.g. 1.750) is from 1s. 4d. to 1s. 8d. per lb. as to quantity. B.P. 1914, 1s. 2d. to 1s. 6d. per lb. HYPOPHOSPHOROUS, B.P.C., in winchesters is from 7s. 5d. to 8s. 6d. per lb. as to quantity: drums, 7s. per lb.; 50 per cent. acid in drums, 8s. 9d. per lb.

POTASH SULPHURATED.—Lump, B.P.C., 3s. 2d. per lb. in 1-cwt. lots.

POTASSIUM ACETATE.—(Per lb.) 1-cwt. lots, 3s.; 5-cwt., 2s. 8d.; 10-cwt., 2s. 6d.

POTASSIUM BICARBONATE.—B.P. powder, 110s. per cwt. 1-4-cwt. lots and 105s. per cwt. for 5-cwt. and over.

POTASSIUM BROMATE.—In 5-cwt. lots, 5s. 3d. per lb.

POTASSIUM CARBONATE.—One-cwt. kegs, 2s. 4d. per lb.

POTASSIUM CHLORATE.—One-cwt. cases, 2s. 6d. per lb.

POTASSIUM CHLORIDE.—One-cwt. lots, 1s. 6d. per lb.

POTASSIUM HYDROXIDE.—B.P. sticks are from 6s. 10d. per lb. and pellets, 4s. 6d.; technical flake, 1s. 10d.

POTASSIUM 8-HYDROXYQUINOLINE SULPHATE.—1 kilo is 55s. per kilo.

POTASSIUM METABISULPHITE.—One-cwt. kegs, 170s.

POTASSIUM NITRATE.—Pharmacopœial quality, 100s. per cwt. (crystals or powder) in 1-cwt. lots.

POTASSIUM PERMANGANATE.—B.P. in 1-cwt. lots, 2s. 0½d. per lb. Technical 214s. per cwt.; 1-ton lots, quoted at 203s. per cwt.

POTASSIUM QUADROXALATE.—One-cwt., 3s. 6d. per lb.

POTASSIUM SULPHATE.—B.P.C. '49, 1s. 2d. per lb.

POTASSIUM THIOCYANATE.—One-cwt., 5s. 6d. per lb.

PREDNISOLONE.—ALCOHOL and ACETATE, 8s. 9d. per gm. for 250-gm. lots.

PREDNISONE.—One-kilo lots, ALCOHOL and ACETATE, 10s. per gm.

PROGESTERONE.—Price is 1s. 3d. per gm. for 1-kilo lots.

PYRIDOXINE.—One-kilo, £27 10s. per kilo; 10 kilos, £27 5s.

RIBOFLAVINE.—One kilo, 210s.

SACCHARIN.—B.P. powder 1 lb. and over 15s. 6d. per lb. SODIUM salt, B.P., 14s.

SODIUM PANTOTHENATE.—Per kilo, 130s.

STREPTOMYCIN.—BASE or SULPHATE, 9d. per gm. Same prices for DIHYDRO.

VITAMIN A.—Synthetic. Supplied in concentrate 1 million international units per gm. as acetate or palmitate the price is £25 per kilo for one-kilo lots.

VITAMIN D.—D₂ powder for tabletting 850,000 i.u. per gm., 125s. per kilo; in oil, 1 million i.u. per gm., 67s. 6d. per kilo for 100,000 m.i.u. Crystalline: see under calciferol. D₃ in oil (1 mega per gm.), threepence per mega for less than 1,000 megas. Crystalline, 12s. per gm. in 100-gm. ampoule.

VITAMIN E (synthetic or natural).—TOCOPHEROL ACETATE, B.P., 25 gm. to 100 gm., ninepence per gm., 100 gm. to 1 kilo, sixpence per gm., 1 kilo and under 10 kilos, £22 per kilo; 10 kilos, £21 15s. per kilo.

Crude Drugs

ACONITE. — Spot. Spanish *napellus*, 2s. 9d. per lb.

AGAR. — Kobé No. 1, 12s. 3d. per lb. in bond; July-August shipment, 12s. 1½d. c.i.f.

ALOES. — Spot primes, 235s. per cwt. Shipment, primes, 230s., c.i.f. Curaçao, spot, 320s.; shipment, 300s., c.i.f.

ANISE. — Chinese STAR. 185s. per cwt., spot, duty paid; shipment, 150s., c.i.f.

ARROWROOT. — St. Vincent, superfine sifted, 1s. 6d. per lb., spot.

BALSAMS. — Per lb.: CANADA: Spot, 19s. 6d. to 22s. 6d. COPAIBA: B.P.C. grade, 10s. 6d. duty paid. PERU: Spot, 8s. 6d. duty paid. TOLU: B.P., from 10s. 9d. to 32s. 6d.

BELLADONNA. — Herb, 0·5 per cent. 2s. 3d. per lb., duty paid. ROOT, testing over 0·5 per cent., 1s. 9d. per lb.

BUCHU.—Spot, 4s. per lb.; shipment, 3s. 10½d., c.i.f.

CALUMBA ROOT.—Mozambique in bond, 85s. per cwt.; 70s., c.i.f.

CARDAMOMS. — Aleppy greens, 9s. 9d. spot; shipment 10s., c.i.f., nominal. Seeds, spot 13s. 6d.; shipment 12s. 3d., c.i.f.

CASSIA. — *Fistula*, 105s. per cwt.; *ligneae* (whole), for prompt shipment, 195s., c.i.f.; selected broken, 185s., c.i.f.

CHERRY BARK. — Thin natural, 1s. 8d. per lb.

CHILLIES. — Zanzibar, 170s. spot; shipment, 160s., c.i.f. per cwt. Mombasa spot, 185s.; shipment, 135s., c.i.f.

CINNAMON QUILLS.—Shipment (c.i.f. per lb.), 4 O's, 7s. 4½d.; single O, 6s. 6½d.; seconds, 5s. 5½d.; quillings, 4s. 10½d.

CLOVES.—Zanzibar spot, 2s. 10½d. per lb. standard grade; shipment, 2s. 7d., c.i.f.

COCILLANA. — Bark, 2s. per lb. on the spot.

COLOCYNTH PULP.—Spot and shipment nominal.

DIGITALIS.—*Purpurea* leaves, 2s. 6d. per lb.

ELEMI.—Spot, 1s. 6d. per lb.; shipment, 1s. 1d., c.i.f.

ERGOT. — Portuguese, 8s. 9d. per lb. spot and c.i.f.

GINGER. — (Per cwt.). African, spot about 380s. Jamaican No. 3 spot, 750s. asked; shipment, nominal. Cochin, 285s.; shipment, 270s., c.i.f.

GUM ACACIA. — Kordofan-cleaned sorts, 157s. 6d. per cwt., spot; shipment, 142s. 6d., c.i.f.

HENNA. — Indian, spot nominal; shipment, 75s., c.i.f., nominal.

HONEY. — (Per cwt.). Australian light amber, 152s. 6d. to 157s. 6d. and medium amber, 147s. 6d. to 152s. 6d. Argentine, 170s. to 172s. 6d.; Jamaican, 150s. to 155s.; Canadian, 165s. to 170s.; Mexican, 155s. to 160s.; all ex warehouse.

IPECACUANHA.—Shipment (c.i.f.): Matto Grosso, 69s. per lb.; Costa Rican, 90s.; Colombian, 67s. No spot.

KOLA NUTS. — African 5½d. spot and 4½d. c.i.f. (per lb.).

MACE.—Whole, pale blade, 15s. per lb.; shipment, 14s., c.i.f.

MENTHOL. — Chinese: spot, 39s. per lb. duty paid; August-September shipment, 34s., c.i.f. Brazilian, 23s. in bond; shipment, 23s., c.i.f. Formosan, 27s. 6d. in bond; shipment, 26s., c.i.f.

MERCURY.—Spot ex warehouse is £58 per flask of 76 lb.

NUTMEGS.—West Indian 80's, 9s. per lb.; defectives, 7s. 6d. East Indian for shipment, 80's, 5s. 2d.; 110's, 4s. 5d.; b.w.a., 3s. 8d., c.i.f.

ORANGE PEEL. — Spot: Sweet ribbon, 1s. 10d. per lb.; bitter quarters: West

Indian, 10½d.; Spanish, 1s. 4d.; bitter ribbon, 1s. 3d.

PAPAIN. — For shipment: East African No. 1, about 34s., c.i.f.

PEPPER.—White Sarawak spot, 2s. 11d. per lb.; shipment, 2s. 9½d., c.i.f. Black Sarawak spot, 2s. 4d.; shipment, 1s. 11½d. Black Malabar, 320s. per cwt. spot; shipment, 270s., c.i.f.

PIMENTO. — Spot quoted at 728s. per cwt.; shipment, 580s., f.o.b.

PODOPHYLLUM.—Spot, per cwt.: *Emodi*, 240s. nominal; new crop for shipment, 230s., c.i.f.; *Peltatum*, 365s. spot.

PYRETHRUM. — Extracts—partially dewaxed, 25 per cent. pyrethrins, 74s. 6d. to 65s. 6d. per lb.; decolorised dewaxed, 20 per cent., 66s. 6d. to 59s. 4d. per lb.

QUASSIA.—Spot, 57s. 6d. per cwt.

QUILLAIA.—Spot, 180s. per cwt.; shipment, 140s., c.i.f.

RHUBARB. — Chinese spot cleared; no shipment offers.

SAFFRON. — Mancha superior about 200s. per lb. spot.

SARSAPEARILLA. — Jamaican native red spot, 2s. 10d. per lb.; shipment, not offering.

SEEDS. — (Per cwt.). ANISE.—Spanish, 275s., duty paid. CARAWAY.—Dutch, 155s., duty paid. CELERY.—Indian unchanged at 210s. spot; shipment July-August, 142s. 6d., c.i.f. CORIANDER.—Moroccan unchanged at 62s. 6d., duty paid, with business passing; new crop for July-August shipment, 58s., c.i.f.

CUMIN.—Indian spot, 165s.; Iranian, 160s., duty paid; shipment Iranian, 142s. 6d., c.i.f. DILL.—Indian offered at 80s. spot; shipment 57s., c.i.f. FENNEL.—Indian quoted at 125s. spot; shipment, 110s., c.i.f. FENUGREEK.—Moroccan, 54s. duty paid; shipment, new crop steady at 43s. 6d., c.i.f. MUSTARD.—English, 50s. to 75s., according to quality.

SENEGA. — Spot, 15s. 6d. per lb.; new crop for July-August shipment, 14s. 9d., c.i.f.

SENNA. — (Per lb.) *Tinnevelly* LEAVES, spot: Prime No. 1, 2s. 3d.; prime No. 2, 1s. 9d.; No. 3, f.a.q., 1s. 4d. PODS: hand-picked cleared on spot. August delivery quoted at 3s. 3d. ex wharf. *Alexandria* pods: Manufacturing, spot and forward, 2s. 6d. to 2s. 9d. per lb. ex wharf; hand-picked from 4s. to 8s.

SHELLAC.—F.O.T.N., 192s. 6d. per cwt.; No. 1, 207s. 6d.; F.O., 225s. to 275s.

SQUILL.—Spot supplies of white virtually cleared and new crop reported late with offers awaited.

STRAMONIUM.—Continental LEAVES 85s. per cwt. spot.

STYRAX.—Spot, 21s. 6d. per lb.; shipment, 21s., c.i.f.

TONQUIN BEANS.—Para spot, 5s. 6d. per lb.; shipment, 4s. 10½d., c.i.f.; Trinidad, 7s. 6d., spot.

TRAGACANTH. — No. 1 ribbon about £150 per cwt. No. 2, £140, c.i.f.

TURMERIC.—Madras finger spot, 150s. per cwt. quoted; shipment, 137s. 6d., c.i.f., sellers.

VALERIAN ROOT. — Spot: East European, 175s. per cwt.; Indian, 175s. Shipment: Continental, 172s. 6d. to 205s. 6d., c.i.f.

VANILLIN.—Rates (per lb.) are now:—5-cwt. lots, 21s. 6d.; 1-cwt., 21s. 9d.; 56-lb., 22s. 6d.

WAXES. — (Per cwt.): BEES'.—Dar-es-Salaam, spot, 445s.; shipment, 420s., c.i.f. Abyssinian, spot, 410s., in bond; shipment, 385s., c.i.f. CANDELILLA, spot, 465s.; forward, 460s. landed. CARNAUBA, fatty grey, spot, 290s., shipment, 270s., c.i.f.; prime yellow, spot, 820s.; shipment, 790s., c.i.f.

WITCII HAZEL LEAVES.—Spot quotations are 2s. 9d. per lb.

Essential and Expressed Oils

ALMOND. — Sweet, English expressed, 9s. 6d. per lb.; foreign, 7s.

AMBER.—Rectified on the spot, 1s. 6d. per lb.

ANISE. — Chinese, 18s. 3d. per lb., spot; shipment, 18s., c.i.f.

ARACHIS. — Spot, 2-5 ton lots naked ex-mill, £120 per ton.

BAY.—West Indian about 25s. per lb. on the spot.

BERGAMOT. — Case lots on spot from 88s. 6d. per lb. as to ester content.

BIRCH TAR.—Rectified, 8s. per lb.

BOIS DE ROSE.—Brazilian, 24s. 6d. per lb. on the spot; July shipment, 22s. 3d., c.i.f.

CADE. — Spanish, 2s. 6d. per lb. for drum lots.

CITRONELLA. — Ceylon spot 9s. 4½d.; shipment 8s. 11d. per lb., c.i.f. Formosan, 12s. 3d., in bond; July-August shipment, 9s. 10½d., c.i.f. Chinese, spot cleared; July-August shipment, 10s. 6d., c.i.f., nominal.

CLOVE.—Madagascar leaf spot, 7s. 3d. per lb.; duty paid; shipment, 6s. 4d., c.i.f. RECTIFIED 87-88 per cent., 12s. Distilled bud-oil, ENGLISH B.P., 26s. per lb. for 1-cwt. lots.

COD-LIVER. — B.P. is 11s. 6d. per gall. including charged returnable drums. Veterinary is from 9s. 6d. per gall. Delivered terms, 25-stone lots.

CORIANDER.—Russian oil, 40s. 6d. per lb., spot.

CUBEB.—Spot supplies of imported are 85s. per lb.

GRAPEFRUIT.—Florida, 19s. to 21s. per lb. spot.

LEMON.—Spot Sicilian 50s. per lb.; shipment nominally 53s. per lb., c.i.f.

LEMONGRASS. — Spot, 11s. 3d. per lb.; shipment, 11s. 3d., c.i.f.

OLIVE.—Spot value of Spanish is 35s. to 36s. per gall.; forward, £360-£370 per metric ton, f.o.b. Other sources nominal.

ORANGE.—Floridan sweet oil, 7s. per lb. nominal; shipment, 5s. 3d., c.i.f. South African and Rhodesian, 8s.; West Indian, 10s.; Spanish, 15s. to 17s. 6d., spot.

PEPPERMINT. — *Arvensis*: Chinese spot, 12s. 6d.; shipment, 9s. 6d., c.i.f. Brazilian spot, 7s. 3d.; shipment, 7s., c.i.f. *Piperita*: Italian, 48s. to 70s., spot. American from 37s. to 38s. 6d. per lb. as to make.

PIMENTO.—English-distilled berry from 150s. per lb. Rectified leaf, 19s. 6d. per lb.

ROSEMARY.—Spanish genuine is 9s. 6d. per lb. spot.

SAGE.—Spanish, 8s. 6d. per lb.; Dalmatian, 25s.

SPEARMINT.—American oil on the spot, 26s. per lb.

VETIVER.—Bourbon spot, 85s. to 105s. per lb.; shipment, 95s., c.i.f.

YLANG-YLANG. — Best oil quoted about 145s. per lb.

UNITED STATES REPORT

NEW YORK, JULY 23: Japanese crude IODINE is now sharply higher at \$1·18 a lb., up 16 cents. MANNITOL moved up 12 cents to 72 cents a lb. for the national formulary grade. SULFAMERAZINE prices were cut 75 cents per kilo to make the powder \$14·50. SULFAMETHAZINE was reduced by 65 cents to make the powder \$12·85. CASCARA was four cents dearer at 32 cents a lb. Formosan CITRONELLA oil at \$1·90 was down 10 cents per lb. and LEMONGRASS at \$1·60 was down 30 cents.

EXPANSION PLANS

IMPERIAL CHEMICAL INDUSTRIES, LTD., have contracted for the supply of a nitric-acid plant, claimed the largest in the world, for their Sevenside works. Capital cost is expected to exceed £1 million, and the plant, which should be operating by early 1965, will have a capacity of 520 tons a day.

PFIZER INTERNATIONAL INC., New York, announce the acquisition of companies in Chile and Mexico, the Enrique Matte Biological Institute, Santiago, Chile, and the Laboratorios Veterinarios Aliados, Mexico, both specialising in the production of vaccines and sera for animal diseases and of veterinary biologicals. Pfizer Chile plans to start production of vaccine to prevent foot-and-mouth disease.

VINYL PRODUCTS, LTD. (a member of the Reichhold Chemicals, Ltd., group) have become associated with Calico Mills of India in the manufacture and marketing of Vinyl Products' range of synthetic-resin emulsions and solutions throughout India. Vinyl Products, Ltd., are responsible for the design of all the equipment to be used for the project, and it will be manufactured in the United Kingdom.

LAPORTE INDUSTRIES, LTD., have been discussing with a consortium of three Japanese chemical manufacturers (Hodogaya Chemical Co., Ltd., Nippon Kayaku, Ltd., and Santoku Chemical Industries, Ltd.), the possi-

bility of forming a new Japanese company to use the autoxidation process for the manufacture of hydrogen peroxide, under Laporte licence. The three Japanese companies are to make an application to the Japanese government for authority to proceed.

UNION CARBIDE AUSTRALIA, LTD., are to draw phenol for the company's own use and for resale from a new synthetic phenol plant to be built by Monsanto Chemicals (Australia), Ltd., at West Footscray, Victoria. The plant will replace plants that have been operating since 1942. Union Carbide will continue to produce phenol from coal-tar oils at Rhodes, New South Wales, and will increase their own consumption of phenol by installing a plant at Rhodes to manufacture a wide range of phenolic resins.

ORIENTED polypropylene is being added to the range of transparent films to be manufactured by British Cellophane, Ltd., at a plant now being laid down at the company's main factory in Bridgwater, Somerset. Commercial production starts later this year. Oriented polypropylene is one of the polyolefin group of hydrocarbons from which polythene and cast polypropylene have been produced. It can be sealed by heat or adhesives and is a good barrier to moisture vapour, is printable by gravure or flexographic methods, and can be made up into various pack forms.

COMMERCIAL TELEVISION

Figures in these columns represent number of appearances of the "spot" during the week.

August 4-10

	London	Midland	North	Scotland	Wales	South	N.E.	Anglia	Ulster	Westward	Border	Grampian	Eireann	Channel Is.	W. & N. Wales
4711 eau de Cologne ...	3	3	2	—	—	3	—	—	—	—	—	—	—	—	—
Alka Seltzer ...	6	3	6	3	6	6	—	6	6	6	6	3	6	6	6
Anadin ...	4	5	2	2	4	2	5	1	4	1	—	6	—	—	—
Andrews liver salt ...	2	1	2	—	2	2	3	4	4	4	2	—	—	5	1
Anne French products ...	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—
Arrid ...	—	—	—	—	—	5	—	—	—	—	—	—	—	—	—
Beecham pills ...	—	—	3	—	—	3	—	—	—	—	—	—	—	—	—
powders ...	4	4	3	5	4	5	5	4	5	3	5	5	—	—	—
Carter's liver pills ...	2	2	—	—	—	3	—	—	—	—	—	—	—	—	—
Cuticura products ...	1	3	—	2	—	2	—	—	3	—	—	—	—	—	—
Delsey tissues ...	—	2	4	4	4	4	3	3	3	—	—	—	—	—	—
Dentu-creme ...	2	2	2	3	3	—	1	2	2	3	2	3	—	1	1
Dinnefords magnesia ...	—	—	1	—	—	1	—	1	—	—	—	—	—	—	—
Dixcel tissues ...	2	—	—	—	—	—	—	2	—	—	—	—	—	—	—
Dr. Wernet's powder ...	—	—	—	—	—	—	3	—	—	—	—	—	—	—	—
Eucryl smokers' toothpowder	3	2	1	—	—	—	—	—	—	—	—	—	—	—	—
Freezone ...	—	2	2	—	—	—	2	—	—	—	—	4	—	—	—
Germolene ...	3	4	3	4	3	3	3	3	3	3	—	5	—	—	—
Ilford cameras and films ...	5	5	4	6	4	5	4	4	4	3	4	5	—	4	4
Immae ...	1	1	—	1	2	1	2	1	1	1	2	5	—	1	—
Ingram shaving cream...	3	3	—	—	4	4	—	3	—	4	—	—	—	—	—
Kleenex tissues ...	1	1	1	2	2	2	2	1	2	2	—	1	—	—	—
Kolynos tooth-paste ...	1	—	—	—	—	1	—	—	—	—	—	—	—	—	—
Le Rouge Baiser lipstick	—	—	—	—	—	3	—	—	—	—	—	—	—	—	1
Loxene shampoo ...	—	2	—	—	—	—	3	—	—	—	—	—	—	—	—
hair cream ...	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Macleans tooth-paste ...	—	—	1	3	—	1	—	1	—	2	—	—	—	—	—
Magiclean ...	—	—	—	—	—	—	—	—	—	2	—	—	4	—	—
Moorland tablets ...	1	3	3	—	—	1	1	2	2	2	—	—	—	—	—
Mothaks ...	2	1	—	—	—	1	—	—	—	—	—	—	—	—	—
Mum deodorants ...	2	3	3	—	—	—	—	—	—	—	—	—	—	—	—
Nair ...	2	—	—	—	—	3	—	—	—	—	—	5	—	—	—
Phyllosan ...	2	3	3	—	3	3	3	3	—	—	—	—	—	—	—
Rennies ...	1	2	2	4	—	4	4	4	—	—	5	—	3	1	—
Rinstead pastilles ...	—	—	—	—	—	1	—	—	—	—	—	1	—	—	—
Salvelox first-aid dressings ...	—	1	—	—	—	1	—	1	2	2	—	—	—	—	—
Sebbix shampoo ...	—	3	2	—	—	3	—	—	—	—	—	—	—	—	—
Setters ...	3	3	3	4	5	3	3	1	2	3	—	—	—	—	—
Swan Lake bath cubes ...	3	3	3	—	—	3	—	—	—	—	—	—	—	—	—

WILLS

MR. J. W. M. ANDERSON, M.P.S., 105 The Avenue, Wood Green, London, N.22, left £17,202 (£12,318 net).

MR. F. P. ANDREW, M.P.S., 10 Demesne Road, Wallington, Surrey, left £12,392 (£11,866 net).

MR. G. S. BALL, M.P.S., 2 Watson Avenue, Heanor, Derbyshire, left £42,897 (£41,718 net).

MR. S. E. COOK, M.P.S., 34 Fireroft Road, London, S.W.17, left £6,389 (£6,274 net).

MR. W. T. R. CORRIE, M.P.S.N.I., 12 Park Parade, Lisburn, co. Antrim, Northern Ireland, left personal estate in England and estate in Northern Ireland valued at £6,854.

MR. B. CRABTREE, M.P.S., 232 Leeds Road, Nelson, Lancs, left £10,096 (£9,208 net).

MR. W. M. CROSS, M.P.S., 104 Parkville Road, Withington, Manchester, left £9,381 (£7,869 net).

MR. G. C. CRUMMACK, F.P.S., 4 Belvedere Road, Scarborough, Yorkshire, left £4,104 (£4,054 net).

MR. E. P. DOWNING, M.P.S., Yew Lodge, Sutton, Banstead, Surrey, left £17,030 (£16,985 net).

MR. G. W. DRING, M.P.S., 559 Lincoln Road, Peterborough, Northants, left £8,778 (£5,701 net).

MR. J. H. GARBUZZ, F.P.S., 36 Park View Gardens, London, N.W.4, left £7,491 (£7,429 net).

MR. T. HIRST, F.P.S., 17 Moorhead Terrace, Shipley, Yorkshire, left £16,715 (£16,401 net).

MR. E. HOOSON, M.P.S., Bronallt, Vicarage Avenue, Llandudno, Caernarvon, left £8,501 (£8,422 net).

MR. A. HOPE, M.P.S., 36 Grimshaw Park, Blackburn, Lancs, left £11,243 (£11,040 net).

MR. R. D. HORTON, M.P.S., The Larches, Spaxton, Somerset, left £16,318.

MR. E. E. JONES, M.P.S., Longdendale, Swiss Valley, Llanelli, Carmar, left £9,748 (£9,245 net).

MR. R. LOY, M.P.S., 57 Bennett Road, Mapperley, Nottingham, left £3,145 (£3,086 net).

MR. J. H. LYON, M.P.S., 5 Jesmond Avenue, Barrow-in-Furness, Lancs, left £31,642 (£26,698 net).

MR. G. R. MITCHELL, M.P.S., Glenesk, The Crescent, Westfields, East Retford, Notts, left £25,885 (£17,047 net).

MR. T. MOKES, M.P.S., 10 Cherry Tree Lane, North Walsham, Norfolk, left £3,059 (£2,991 net).

MR. R. E. MOORE, M.P.S., 13 First Avenue, Chelmsford, Essex, left £2,912 (£2,838 net).

MR. A. V. MORRIS, M.P.S., 83 Colebank Road, Hall Green, Birmingham, left £5,051 (£4,967 net).

MR. R. W. ROBERTSON, M.P.S., 22 Old Green Road, Margate, Kent, and Victoria Road, Margate, left £8,194 (£3,674 net).

MR. B. B. RUSSELL, M.P.S., 20 East Drive, Carshalton, Surrey, left £14,941 (£5,729 net).

MRS. A. M. SHAW, M.P.S., The Pharmacy, Deddington, Oxon, left £5,392 (£4,932 net).

MR. G. SHAW, F.P.S., 29 Bournside Road, Hatherley Park, Cheltenham, Glos, left £22,983 (£22,517 net).

MR. R. WEBB, M.P.S., 2 Lankers Drive, Harrow, Middlesex, left £9,504 (£9,435 net).

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, July 29

INTERNATIONAL PHARMACEUTICAL STUDENTS' FEDERATION CONGRESS. Business sessions at the School of Pharmacy, University of London, Brunswick Square, London, W.C.1. Until August 8.

Wednesday, July 31

MANCHESTER PHARMACEUTICAL GOLFING SOCIETY, Mere golf club, Mere, Knutsford, Cheshire. Play for Woolley trophy and prize (ladies' day).

Advance Information

FOURTH BRITISH CONGRESS ON HISTORY OF MEDICINE AND PHARMACY, Lincoln Hall, Nottingham, September 20-23. Theme: "The Evolution of Pharmacy in Britain."

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED

From the "Official Journal (Patents)," July 10
 Dispenser containing a pharmaceutical preparation for the relief of pain, Smith Kline & French Laboratories, Ltd, 934,684.
 Chewing gum, Warner-Lambert Pharmaceutical Co, 934,596.
 Methods of obtaining substantially stable concentrated extracts of red vine (*Vitis vinifera*) and the extracts resulting therefrom, E. Abeles, 934,554.
 Therapeutic preparations containing sitosterol, C. F. Boehringer & Soehne, G.m.b.H, 934,686.
 Organic phosphine and phosphorium compounds, American Cyanamid Co, 934,895.
 Guanidine compounds, Parke, Davis & Co, 934,935.
 Antibiotic production, Glaxo Group, Ltd, 934,526.
 Production of antibiotics, Glaxo Group, Ltd, 934,527-28.
 Production of the antibiotic porfiromycin, American Cyanamid Co, 934,853.
 Hydroxocobalamin purification process, J. Boige and R. Cote, 934,462.
 1-methyl aromatic steroids, Glaxo Group, Ltd, 934,714.
 Steroid compounds, Merck & Co., Inc, 934,801.
 Processes for the production of substituted corticosteroids, Roussel-Uclaf, 934,701, 934,704.
 Steroids, Roussel-Uclaf, 934,702, 934,705.
 Processes for the production of steroid compounds, Roussel-Uclaf, 934,703.
 Production of steroid compounds, Roussel-Uclaf, 934,706.
 Production of steroid compounds and the compounds thus produced, Roussel-Uclaf, 934,707, 934,709.
 Steroid compounds and their production, Roussel-Uclaf, 934,708.
 Steroid compounds and processes for their production and conversion into substituted corticosteroids, Roussel-Uclaf, 934,710-11.
 Steroids, Lepetit, S.p.A, 934,574.
 Production of cyclopentanonaphthalene compounds and their use in steroid synthesis, Roussel-Uclaf, 934,967.
 Steroid compounds and processes for the preparation thereof, Roussel-Uclaf, 934,712.
 Steroid compounds and processes for their preparation, Roussel-Uclaf, 934,713.
 Steroid compounds, Roussel-Uclaf, 934,802.
 Triazine derivatives, Deutsche Gold-Und Silberscheideanstalt, 934,400.
 Herbicidally active compounds, Rhone-Poulenc, S.A, 934,573.
 Organo-phosphoric acid ester and insecticidal compositions containing same, Sumitomo Chemical Co., Ltd, 934,721.
 Omega-halo-omega-nitrostyrenes and fungicidal compositions containing them, Boots Pure Drug Co., Ltd, 934,381.
 Halo-alkyl phenyl carbamates and the manufacture and application thereof, Upjohn Co, 934,576.
 Carbamic acid esters, Farbenfabriken Bayer, A.G, 934,581.
 Herbicidal, fungicidal and nematocidal compositions, Farbenfabriken Bayer, A.G, 934,923.
 Making lithographic printing plates by the silver salt diffusion process, Kodak, Ltd, 934,692-93.
 Photographic materials, Kodak, Ltd, 934,697.
 Photographic camera having a view-finder device, C. Zeiss, 934,748.
 Range view finder for photographic cameras, Voigtlander, A.G, 934,762.
 Production of photographic printing plates, Kodak, Ltd, 934,694.
 Twin-lens photographic cameras, Rollei-Werke Franck & Heidecke, 934,855.
 Cameras including a diaphragm and a photoelectric cell, Compagnie Crouzet, 934,759.
 Photographic apparatus, International Polaroid Corporation, 934,675.
 Apparatus for making photographic colour prints, Eastman Kodak Co, 934,971.
 Disposable-syringe, Boots Pure Drug Co, (Australia) Pty., Ltd., and Casercraft Pty., Ltd, 934,524.
 British patent specifications relating to the above will be obtainable (price 4s, 6d, each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2, from August 21.

From the "Official Journal (Patents)," July 17
 Antibiotic BA-8509 and its components A, B and C and pharmaceutical compositions containing same, Chas, Pfizer & Co., Inc, 935,327.
 2,4-Diaminoquinazolines and their preparation, Wellcome Foundation, Ltd, 935,381.
 Antibiotic decoyintine and the manufacture thereof, Upjohn Co, 935,075.
 Compositions comprising or consisting of a coated chloroquine or amodiaquine salt, Imperial Chemical Industries, Ltd, 935,426.
 Plastic tablet coating, Abbott Laboratories, 935,386.
 Pharmaceutical preparations containing N-propylguanidine salts, Wellcome Foundation, Ltd, 935,387.
 Delayed release preparations for asthma therapy containing theophylline, Key Pharmaceuticals, Inc, 935,601.
 Sustained release type of pharmaceutical vehicles, Key Pharmaceuticals, Inc, 935,602.
 N-allylpiperidines, process for their manufacture and pharmaceutical compositions containing them, Karl Thomae, G.m.b.H, 935,410.
 1-allyl-4-phenyl-4-carbopropoxy piperidine, process for its manufacture and pharmaceutical compositions containing it, Karl Thomae, G.m.b.H, 935,318.
 Continuous process of producing esters, Distillers Co., Ltd, 935,279.
 P-anisophenoxyalkanes, May & Baker, Ltd, 935,378.
 Sulphonated ureas and their manufacture, Wellcome Foundation, Ltd, 935,282.
 Quaternary ammonium compounds and their preparation, Wellcome Foundation, Ltd, 935,613.
 Thiocolchicine compounds, Sandoz, Ltd, 935,187.
 Pharmacologically active 2,5-disubstituted pyrrolidines, Lepetit, S.p.A, 935,429.
 Process for the manufacture of α -ethyltryptamine, Imperial Chemical Industries, Ltd., and L. H. Smith, 935,592.
 Method of producing vanillin and other useful products from lignosulphonic acid compounds, Ontario Paper Co., Ltd, 935,305.
 Sulphonylureas and process for preparing same, CIBA, Ltd., 935,202.
 Piperazine derivatives and a process for the manufacture thereof, F. Hoffmann-La Roche & Co., A.G, 935,406.
 British patent specifications relating to the above will be obtainable (price 4s, 6d, each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2, from August 28.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," July 10

For preparations and substances for laundry use; detergents (not for use in industrial or manufacturing processes); cleaning, polishing, scouring and abrasive preparations; and soaps (3)
 DOMY, 844,574, by Domestos, Ltd., Newcastle-upon-Tyne, 6.
 For perfumes, non-medicated toilet preparations, cosmetic preparations, dentifrices, depilatory preparations, toilet articles (not included in other classes), sachets for use in waving the hair, shampoos, soaps and essential oils (3)
 TROPIC STAR, 846,717, by Cussons, Sons & Co., Ltd., Manchester, 7.
 For degreasing preparations (not for use in industrial or manufacturing processes); and cleaning, polishing, scouring and abrasive preparations (3)
 PARADEG, 846,833, by William Butler & Co. (Bristol), Ltd., St. Philips, Bristol.
 For all goods (5)
 RESPUM, 825,903, by Roche Products, Ltd., Welwyn Garden City, Herts, MAGNAPHEN, 841,083, by Fraser Chemicals, Ltd., London, S.E.13, OCCLUSIN, B843,096, by Imperial Chemical Industries, Ltd., London, S.W.1, Device, 844,243, by Unigate, Ltd., London, W.2, OPERIDINE, 846,310, by Johnson & Johnson, New Brunswick, New Jersey, U.S.A, PREDUC-TAL, 844,729, by Farma, S.A, Neuilly-on-Seine, France.
 For surgical and medical instruments and apparatus, but not including hearing aids for the deaf (10)
 WELEDA, 827,749, by Weleda, A.G., Arlesheim, Switzerland.

For detergents not for use in industrial processes or in the course of manufacture (3)
 SPIRAL, 843,619, by Unilever, Ltd., Port Sunlight, Cheshire.
 For medicated creams and lotions, all for the treatment and care of the skin (5)
 NOXZEMA, 835,182, by Noxzema Chemical Co., Baltimore, Maryland, U.S.A.
 For powdered milk food for infants (5)
 S-M-A, B839,839, by John Wyeth & Brother, Ltd., London, W.C.1.
 For medicated skin creams (5)
 CALAZEAN, 840,209, by Arthur H. Cox & Co., Ltd., Brighton, Sussex.
 For pharmaceutical preparations for use as hypnotic sedatives, but not including barbiturates (5)
 SERENSED, 841,826, by Abbott Laboratories, Chicago, Illinois, U.S.A.
 For pharmaceutical products (5)
 VARECORT, 842,339, by Zyma, S.A., Nyon, Switzerland.
 For medicines for human beings and animals (5)
 SALP, 843,181, by Farbenfabriken Bayer, A.G., Leverkusen, Germany.
 For pharmaceutical preparations and substances for human use and for veterinary use (5)
 NOSTRIVIN, 843,686, by CIBA, Ltd., Basle, Switzerland.
 For insecticides (5)
 ANTHIO, 847,546, by Sandoz Products, Ltd., Horsforth, Leeds, Yorks.
 For pharmaceutical preparations and substances (5)
 ENTAIR, 845,661, by The British Drug Houses, Ltd., London, N.1.
 For photographic and cinematographic apparatus and instruments and parts and fittings (9)
 VARIOMATOR, 839,040, by Agfa, A.G., Leverkusen-Bayerwerk, Germany.
 For photographic, cinematographic and optical apparatus and instruments and parts and fittings (9)
 ROLLSMAT, 845,982, by Mayfair Photographic Suppliers, London, N.W.3.
 For all goods (10)
 Device with word PAKO, 838,807, by Pako Corporation, Minneapolis, Minnesota, U.S.A.
 For surgical tweezers fitted with an adjustable magnifying lens (10)
 MAGNATWEEZ, 845,850, by New Era First Aid Service, Ltd., Manchester, 14.
 For disposable urine bags being surgical draining receptacles (10)
 REDY-BAG, B842,986, by Sjucos, A.B., Gothenburg, Sweden.
 For vacuum flasks (21)
 AFROVAC, 846,854, by United Africa Chemists, Ltd., London, S.E.1.
 For tooth-brushes (21)
 THE ION TOOTHBRUSH, 845,518, by Ion Toothbrush Co., Ltd., London, N.W.10.
 For babies' napkins made of textile materials and articles of clothing for babies (25)
 BABY LIFE, B840,870, by MacDonald & Taylor, Ltd., Ashton-under-Lyne, Lancs.
 For stockings (25)
 BOOTS CLASSIC, 846,069, by Boots Pure Drug Co., Ltd., Nottingham.

CONTEMPORARY THEMES

Subjects of contributions in current medical and technical periodicals,

CHLORAMPHENICOL for long-term therapy of cystic fibrosis, *J. Amer. med. Ass.*, June 29.
 ANTICOAGULANTS for atrial fibrillation, *J. Amer. med. Ass.*, June 29.
 METRONIDAZOLE, Treating vaginal trichomoniasis with, *J. Amer. med. Ass.*, June 29.
 COAGULASE AND ALPHA-HAEMOLYSIN TOXOIDS in chronic furunculosis, Clinical trial of, *Brit. med. J.*, July 20.
 OESTROGENS, Long-term treatment of epistaxis with, *Brit. med. J.*, July 20.
 EFFECTS OF IONISING RADIATION ON PHARMACEUTICALS, *Aust. J. Pharm.*, May.
 EDETIC-ACID TEST of parathyroid insufficiency, *Lancet*, July 20.
 A NEW LOCAL ANALGESIC AGENT (L.67, Citanest), A clinical trial of, *Brit. Dental J.*, July 16.
 CHEMICAL INSECT ATTRACTANTS, *Science*, June 28.
 CARBAMYL PHOSPHATE, *Science*, June 28.
 CANCER THERAPY; a possible new approach, *Science*, June 28.

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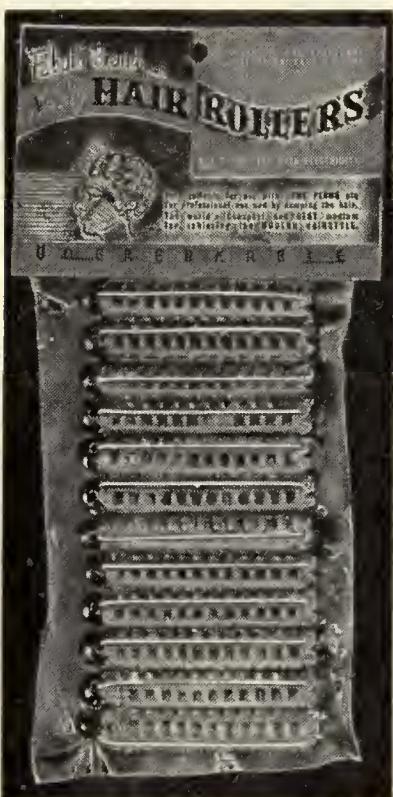
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PREMISES

BEBINGTON, Wirral. Lock-up shop to let, suitable for chemist in rapidly expanding high-class area in new Spital Precinct. Evidence available of excellent turnover on new businesses adjoining (constantly increasing). Applications to Sutcliffe & Co., 14 Water Street, Liverpool, 2. Telephone: MARitime 1606. C 5413

BRIGHTON, near. New shops in course of erection, with self-contained flat and garage, one unit remains in new parade of 10 shops serving large Estate and surrounding district; trades include confectionery, tobacconist, newsagents, butcher, grocery, wools and drapery, greengrocery and florist, ladies' and gentlemen's hairdressers, off-licence, hardware. Extremely good opportunity for Chemist. Rent £550 per annum exclusive of rates. Further particulars apply Deacon & Company, 11 Station Road, Portslade. C 5419

BUSINESSES WANTED

WELL ESTABLISHED COMPANY with existing toiletry interests wishes to acquire a company manufacturing toiletries and allied products and/or non-medical pharmaceuticals. Sales organisation and established outlets essential. Minimum turnover £100,000. All enquiries dealt with in confidence. Write Box C 8280.

BUSINESSES FOR DISPOSAL

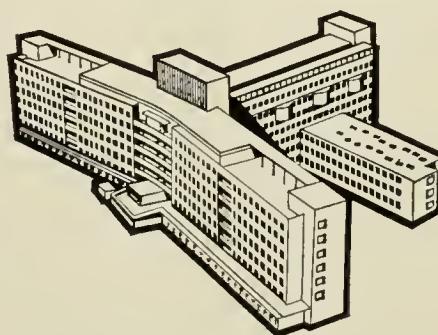
CHEMIST'S BUSINESS FOR SALE including shop property in country town in Dumfriesshire. Excellent profits and turnover. Further particulars from Alexander Martin & Co., C.A., 180 Hope Street, Glasgow, C.2, with whom offers should be lodged. Present owner retiring. C 5409

RETAIL & DISPENSING CHEMIST. Well sited in prosperous small West Riding town. Turnover approx. £9,600 p.a. (net profit approx. £1,750 p.a.). Large smart well equipped d/f shop and dispensary. Nice living accommodation with spacious hall, modern lounge, fitted kitchen, 2 double bedrooms, bathroom/w.c., etc. An old established business. Price: freehold property, £2,500 (alternatively long lease will be granted). Fully equipped business, £2,200. S.a.v. (Good loan should be available.) RK.47.A.

Ask Henry Stead & Partners, Ltd., 29 Cookridge Street, Leeds 20208 (3 lines). C 5403

MATLOCK. Profitable Drug Store, with good passing and holiday trade, offered for £4,000, including stock; spacious living accommodation overlooking river; parking outside shop; long lease at £95 per annum. Turnover, £6,900. Net profit, £1,140. Good agencies held. Box C 8425.

APPOINTMENTS



**NEW
WELWYN
AND
HATFIELD
HOSPITAL**

SENIOR PHARMACIST

is required at this new district general hospital of 315 beds which has recently opened. The Pharmaceutical department is modern and well-equipped, providing excellent working facilities. The person appointed will be expected to act as deputy to the Chief Pharmacist with responsibility for the internal organisation of the department. Salary scale £810 to £1,060 per annum and Whitley Council conditions of service. It may be possible to assist the successful applicant with accommodation in certain circumstances.

Applications with the names of two referees to the Hospital Secretary, "Kennelwood," Kennelwood Lane, Hatfield, Herts, as soon as possible.

C 640

**ALTON GROUP HOSPITAL
MANAGEMENT COMMITTEE**

Dispensing Assistant

Applications are invited for post of Dispensing Assistant at LORD MAYOR TRELOAR HOSPITAL, Alton, Hants. Apothecaries' Hall Certificate preferred. Whitley Council Conditions of Service. Applications with names and addresses of two referees to the Group Secretary at the above address. C 5414

**CENTRAL GROUP HOSPITAL
MANAGEMENT COMMITTEE**

Locum Pharmacist

for holiday relief duty in the hospitals of the Group, 29th July to 28th Sept., inclusive. Salary 19 gns. p.w. Apply to Chief Pharmacist, Bethnal Green Hospital, Cambridge Heath Road, London, E.2. C 634

**CROYDON EYE UNIT,
33 MAYDAY ROAD, CROYDON**

Pharmacist—Part-time

required for one session weekly to be undertaken on a Saturday morning. Pharmacy linked with that of Mayday Hospital. Rate 40s, 7d. plus London Weighting for 4-hour session.

Applications to Group Secretary, General Hospital, London Road, Croydon. C 8423

**GATESHEAD AND DISTRICT
HOSPITAL MANAGEMENT
COMMITTEE**

Assistant Pharmacist

Applications are invited from suitably qualified Pharmacists for the above post. The successful applicant will be required to work within the Gateshead Group of hospitals. Pharmaceutical Whitley Council "C" Salary and Conditions of service apply. Applications together with the names and addresses of two referees should be addressed to the undersigned.

H. CLARK,
Group Secretary.

"The Lodge,"
Sheriff Hill,
Gateshead, 9.

C 5402

**LEWISHAM HOSPITAL,
HIGH STREET, S.E.13**

Locum Pharmacist
required. £19 19s. a week. Apply Group Secretary. C 637

**LEWISHAM HOSPITAL,
HIGH STREET, S.E.13**

Senior Pharmacist
required. Applications stating age, qualifications and experience, and names of two referees to Chief Pharmacist. C 636

Appointments—Continued**LONDON JEWISH HOSPITAL,
STEPNEY GREEN, E.1****Locum Pharmacist**

required at the above hospital from August 27. Modern department. Every third Saturday morning off. Salary £19 19s. per week. Applications to the Chief Pharmacist. (STE. 4251.) C 8398

**LONDON JEWISH HOSPITAL,
STEPNEY GREEN, E.1****Pharmacist**

required at the above hospital from August 27. Modern department offering good general experience. Every third Saturday morning off. Whitley Council salary scale. Applications in writing, giving details of age, qualifications and experience, together with the names of two referees, to the Chief Pharmacist. (STE. 4251.) C 8397

**NETHERNE HOSPITAL,
COULSDON, SURREY****Locum Pharmacist**

required, salary £19 19s. per week. Conditions of service as agreed by the Pharmaceutical Whitley Council. Temporary accommodation for single lady. Applications in writing with full particulars together with the names of two referees to the Physician Superintendent. C 8421

**NEASDEN HOSPITAL,
BRENTFIELD ROAD,
LONDON, N.W.10****Locum Chief Pharmacist**

required. Apply: Physician Superintendent. C 8428

**NETHERNE HOSPITAL,
COULSDON, SURREY****Pharmacist**

required, salary £725 x £30 (2) x £35 (3) x £40 (2) = £970, plus London Weighting allowance. Conditions of service as agreed by the Pharmaceutical Whitley Council. Unfurnished flat available. Hospital within easy travelling distance of London and the coast. Applications in writing with full particulars, together with the names of two referees, to the Physician Superintendent. C 8420

**SOUTHEND-ON-SEA
HOSPITAL
MANAGEMENT COMMITTEE****Post-graduate Student**

required in the pharmacies of the hospitals in Southend-on-Sea group. Salary £485 per annum. The hospitals are situated in pleasant surroundings and the post offers excellent opportunities for experience in all branches of pharmaceutical work, including dispensing for in-patients and for patients from a busy consultative out-patients department, manufacturing, sterilising, dressings and instruments. Applications, stating age, particulars of education, etc., with the names of two referees should be sent to the Secretary, General Hospital, Southend-on-Sea, as soon as possible. C 8406

**WEST PARK HOSPITAL,
EPSOM, SURREY****Senior Pharmacist**

Senior Pharmacist required at this modern psychiatric hospital. Five-day week. Salary range £810—£1,060 plus London Weighting of £45.

Small unfurnished flat available to rent; or a bed-sitting room for a single person. Further information on request from Chief Pharmacist, Epsom 5234.

Please apply immediately, naming two referees, to the Group Secretary. C 8409

**PINEWOOD HOSPITAL,
NINE MILE RIDE,
WOKINGHAM****Locum Pharmacist-in-Charge**

required 2nd to 21st September. Salary £23 2s. per week. Accommodation may be available. Applications to Secretary. C 8410

**THE PRINCE OF WALES'S
GENERAL HOSPITAL,
LONDON, N.15 — Category IV****Locum Tenens Pharmacist**

required immediately. Application form from Secretary. C 5418

**ST. LEONARD'S HOSPITAL,
NUTTALL STREET,
LONDON, N.1****Locum Pharmacist**

required from 1st September onwards. Applications to Chief Pharmacist. C 642

**THE ROYAL EYE HOSPITAL,
UPPER BRIGHTON ROAD,
SURBITON, SURREY****Locum Chief Pharmacist (I)**

required at the above hospital from 12.8.63 to 24.8.63, inclusive, £21 10s. 6d. per week. Apply to Hospital Secretary. C 8427

**THE PRINCE OF WALES'S
GENERAL HOSPITAL,
LONDON, N.15 — Category IV****Senior Pharmacist**

temporary or permanent, required. Salary scale £810/£1,060 p.a. plus London Weighting. Additional allowance for higher qualifications. Application form from Secretary. C 5417

**WEST PARK HOSPITAL,
EPSOM, SURREY****Dispensing Assistant**

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WEST HARTLEPOOL. Co. Durham. Pharmacy Manager required, lady or gentleman, for small branch. Suit newly qualified Pharmacist. Apply John C. Dyer (Chemist), Ltd., 6 Upper Church Street, West Hartlepool, Co. Durham. C 5420

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COMPANY marketing laboratory chemicals requires man to take control of sales. Previous experience desirable. Slough area. Apply Box C 5396.

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MEDICAL REPRESENTATIVE required for Kent, Surrey, and East Sussex. Preference will be given to gentleman with at least 3 years' medical detailing. Age is no bar, and the age group preferred is 35/55. Exceptionally good early prospects. Car will be provided. Write giving full details to Box C 5353.

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Mr. J. E. Day, M.P.S.,
ALLIED LABORATORIES, LTD.,
140 Park Lane, London, W.1.
C 8431

MEDICAL REPRESENTATIVE (25-35 years) required for N.W. London. Experienced man/woman preferred but other applicants will be considered providing they have the necessary qualifications. Company car provided. Pension/life assurance scheme. Please send brief details of career to date to Asst. Personnel Manager, Vitamins Ltd., Upper Mall, W.6, quoting reference MR/N.W. London. C 8429

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C 8405

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C. B. LINFOOT,
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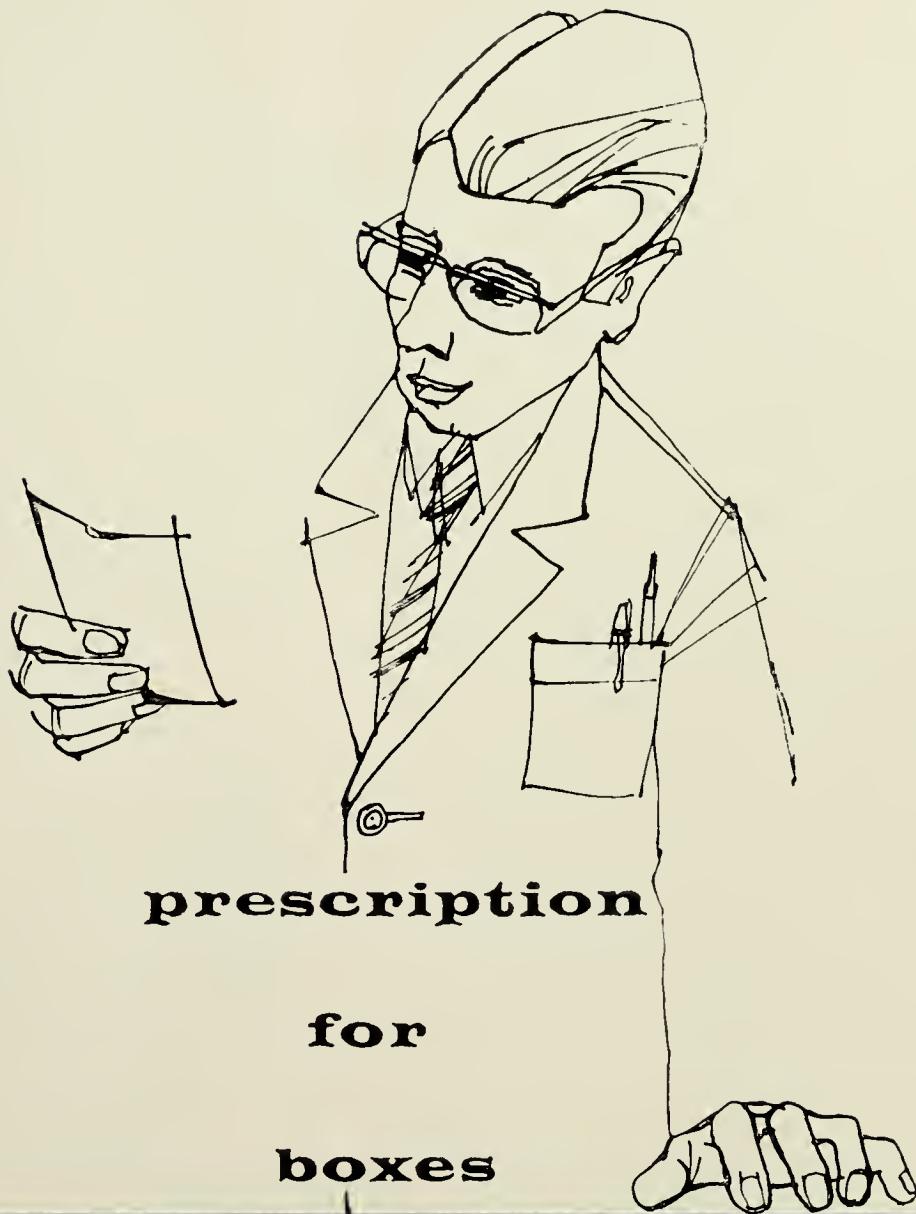
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JULY 27, 1963

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